

This Scanning Electron Micrograph (7000×) is the first 3-dimensional view of a cell in an ulcerated duodenum. The centar is completely deputed, surrounded by fairly well-preserved microviili. This SEM photomicrograph was taken from a scientific exhibit witch won the Hult Award as the "best exhibit on original research or instruction on a madical aubject" at the A.M.A. Clinical Convention, Novamber 26-29, 1972, in Cincinnett, Ohio.

The Tireless Man

whose duodenal ulcer needs a rest

Up early, home late, often with a scratch pad filled with notes, figures, plans. A few hours' sleep and then another long day. This is often the routine of the tireless hard driver, one-man committee with enough overwork and stress to wear out severel men. But his duodenal ulcer may warn him with sharp discomfort that he had better ease up, let some things go, and give himself-

The need to reduce G.I. hypermotility and hypersecretion

Overwork together with overanxiety are often principal factors in exacerbating a duodenal ulcer. To help reduce the increased gastric secretions and hypermotility, therapy may need to include treatment for associated undue anxiety—which is where dual-action Librax can be highly useful.

The dual nature of Librax

Only Librax combines, in one capsule, the antianxlety action of Librium® (chlordiazepoxide HCI) and the antisecretory action of Quarzan® (cildi-

Before prescribing, please consult complete product information, a summery of which follows:

Indications: Symptomalic relial of hypersecretion, hyper-molifity and enxiety end tension states associated with organic or functional gastrothtestinal disorders; and as adjunctive therapy in the management of peptic ulcer, gastritts, duo-denitis, irritable bowel syndrome, spasiic coliiis, and mild

Contraind cations: Pellents with gleucoma; prostalic hyper-trophy end benign bladder neck obstruction; known hyperssn-sitivity to chlordiazepoxide hydrochloride end/or clidinium

bromide.

Warnings: Caution patiants about possible combined effects with elcohol and other CNS dapressents. As with eli CNS-acting drugs, caution patiants against hazardous occupatione requiring complate mental elert ness (e.g., operating menhinery, driving). Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering Librium (chlordiazapoxide hydrodhloride) to known addiction-prone individuals or those who might increase dosage; withdrawal symptoms (including convulsions), fotiowing discontinuation of the drug and almiliar to those seen with parbiturates, have been reported. Use

bearing ege requires thei its potential banellis be weighed egeinst its possible hazards. As with all anticholinergic drugs, an inhibiting effect on lectetion may occur.

Precautions: In elderly and debilitated, limit dosage to smell-ast affective amount to preclude development of ataxie, oversedation or confusion (not more than two capsulas per day initially; increase greduelly as naeded and tolerated). Though generally not recommended, if combination inarapy with other psychotropics seems indicated, carefully consider individual phermacologic affects, particularly in use of potentiating drugs such as MAO inhibitors and phenothizatines, hepatic function. Peradoxical reactions (e.g., axcilemant paticnis. Employ usual precautions in presence of impaired renel or simulation and acute rege) have been reported in psychiatric paticnis. Employ usual precautions in treatment of enxiety paticnis. Employ usual precautions in treatment of enxiety ancies may be present and protective measuras necessary are in paticnis receiving the drug and oral anticagularis; rarely in patients receiving the drug and oral anticagularis; Adyarse Reactions: No side affects or manifestations for sean which either compound alone have been reported with Library. These, staxis and confusion may occur, especially in the elderly

and dabiliteled. These are reversible in most instances by proper desage adjustment, but are also occessionally observed et the lower desage ranges. In a few instances syncope has been reported. Also ancountered are isolated instances of skin eruptions, edema, minor monstrual irregularities, nauses and constipation, extrapyramidet symptoms, increased and decreased libido—all infrequent and generally controlled with desage reduction; changes in EEG patterns (low-voltage fell activity) may appear during and after treatment; blood dyscrasias (including agranulocytosis), jeundice and hepatic dysfunction have been reported occasionally with chlordiazapoxide hydrochioride, making periodic blood counts and liver. apoxide hydrochioride, meking periodic blood counts and live function tests advisable during protracted therapy, Adverse effects reported with Librex are typical of enlicholinersic agents, i.e., dryness of mouth, blurring of vision, urinery hestitancy end constitution. Constitution has occurred most often when Librex therapy is combined with all the consequence. en Librex therapy is combined with other spannolytics

nium Br). As an adjunct to a therapoulic rogimen, Librax may help relieve both somatic and associated anxiety factors that often contribute to the exacerbation of duodenal ulcor symptoms.

For optimal response, dosage should be adjusted to your patient's requirements—1 or 2 capsules, 3 or 4 times daily. Rx: Librax #35 for initial evalua-

weeks' medication can help maintain patient gains while permitting less

Rx: Librax #100 for follow-up therapy—this prescription for 20r3

For the anxiety-linked symptoms

Up to 8 capsules daily in divided doses

tion of patient response to therapy.

of duodenal ulcer

Roche Laboratories
Olyision of Hoffmenn-La Reche Inc.
Nulley, N J. 07110

Medical Tribune

Vol. 14, No. 30

world news of medicine and its practice—fast, accurate, complete

Wednesday, August 8, 1973



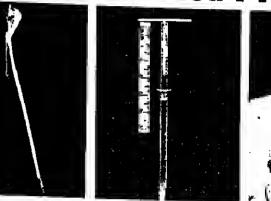
Psychiatrist Pulls Big-League Hitter Out of Slump in One Hypnosis Session

Medical Tribune Repan

BALTIMORE-A distinguished Bultimore psychiatrisi, Dr. Jacob Conn, has just landed on the sports pages of the nationas well as in the baseball record books— by bringing a big-league hitter out of a

slamp with hypnosis. What is more, it was uli donc in one casy session.

The Oriole hitter, Psul Bloir, who had been in a slump for three years, now has **Nonsystemic Contraceptives: Three Kinds Called Promising**



Three new developments in contraceptive techniques are, from left to right, the soft pouch, the Tatum T, and the device to block the falloplan tubes with silicone rubber.

BAL HARSOUR, FLA.-Three new devalopments in contraceptive techniques-o reversible blocking of the fellopian tubes and two adaptations of the intrauterine device-were described here at the annual clinical meeting of the American College of Obstetricisms and Gynccologists.

All three reports expressed enthusiasm shuut results so fur observed in clinical trials or natural studies, but coch also cautioned that the new techniques are still n the investigative stage.

Blockage of the falloplan tubes "appears to have great family-pinaning potential as a transcervical, nonincisional procedura which would be necemplished on an outpstiont basis," according to a research team from Halmemsnn Medical College and Hospital and the Franklin Institute Re-

scarch Lshoratorics, Philadelphia.
Robert A. Erh, Ph.D., of the institute, ssld the group's work with rabbits has now demonstrated that installotion of medlcal-grade, cured-in-pisco silicone rubber In the oviduets produces potentially reersible contraceptive sterilization.

In a series of 19 treated rabbits observed for 53 to 56 days, pregnescy occurred in only one uterine horn-where the plug bad been improperly installed. Io a later series

of nine aointals observed for several months, pregnancy egain occurred in only one horn from which the plug had been

in rhesus monkeys. Plugs in most instances could be re-Continued on page 16

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lost through backflow a week that in-

stallation. Similar tests are now under way

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New Administration Health Plan to Take Hard Line on MDs

Medical Tribune Report

Washington-The Administration has served notice on the medical profession that its forthcoming version of a national health insurance proposal will take a much harder lins on controlling the cost, quality, and distribution of physician services in the United States theo past propossis.

This impression clearly omerged from remarks made by top Administration offi-Hale during a two-day White House seminar for medical writers from all over the

Past Efforts Plecomeni

The officials conceded that much of the fallers to solve the nation's major bealth Problems was due to the piecemeal apbroach of past Federal efforts, but they rere also sharply critical of medical pracdes that they feel have exacerbated some of these problems.

profession came from the Administra- (PSRO). tion's top physician, Assistant Scaretary - Suggested that the "doctor shortage" for Health Dr. Charles C. Edwards, who:

Is partly the resolt of overspecialization.

Made light of potcotial American Med
Questioned the need for much of tha

The strongest criticism of the medical sional Standards Review Organization

Cholesterol Assays Urged in Children To Spot Those at Atherosclerosis Risk Medical Tethune World Service

Quenec-Serum cholasterol levels should Three cases of type 4 were also seen.

be assayed as part of the routine examination of all children in order to determice sis," three leading Canadisn pediatricians urged here.

covered eight cases of type 2 hyperlipoprotelnemia and seven cases among pareots It was made elear, too, that the new Poposal will include cost control mecha-Minis to prevent such abuses as have incidence of one in 150 of type 2 is coo-

sistant with previous reports, they sald.

Tho random serum cholesterol determination is an important aspect of prevcothose at risk of "premature atheroselero- tive medicine, the lovestigators said. pointing out that untreated patients with the heterozygous form of the disease have A random study of 1,232 children uo- a poor long-term prognosis and that patients with homozygous cases usually die before the age of 20. The report was delivered at a meeting of the Canadian Pedistric Society.

Commenting that it is of "paramount

occurred under Medicare and Medicaid. Ical Association opposition to the Profes- electiva surgery performed by American

 Criticized physicians for failing to beed Food and Drug Administration warnings about overprescribing of antiblotics.

Dr. Edwards' remorks led ona writer to Continued on page 16

On Parle Français Ici -But Not Very Well

Medicai Tribune World Service Queazc-Tho traditional greetlog en français that "les Anglais" give at meetings here proved a bit of a problem for Dr. James B. J. McKeodry, seoior staff physiciao, Hospital for Sick Children, Toronto, wheo he spoke to that Caoadlao Pediatric Society herc.

"I'm ashsmed of my French, but I didn't know any uotil 10 minutes ago," he said.

Dr. Michel Delisle, the chairman, loterjeeted, "I faught you your French 10 mioutes ago and I'm ashamed of it, too."



Herbs for Healing Sought

In Red Chinn, where herbs are still of

ten used for medicinal purposes, finding

nud pieking them can be quite a job.

Here climinera go up the side of Mona Humngshan in Anhwei Province is

gnther the valuable herbs, The mak

knuwn for its beautiful landscapes.

Highest Cancer Mortality

Found in 35-64-Year-Olds

TOKYO-The heaviest cancer martality is

Japan in 1971 was In the 35-to-64-yearsp

group. Cancer was responsible for 21.1

per cent of deaths in the aga bracket of

35 to 39 years and 24.8 per cent in those

from 40 to 44 years of age. Storage enneer still claimed the most

victims, but the number of deaths is de-

creasing while lung cancer deaths are

1973 Smallpox Incidence

Doubles in Comparison

With First Half of 1972

GENEVA, SWITZERLAND-The reported in

cidence of smallpnx almost daubled da

ing the first half of this year over the uluring the same period in 1972, the World

Indla and Bangladesh, where the dista

is endemic, account for elmost 88 per est

of the 77,984 cases reported this par

Both countries have been reporting t

highest incidence since the global program

for credication of smallpox began sorth

Cases also occurred in four other co

tries of Asia this year. In Pakistan small

pox la also endemic, but all eases

Afghanistan (14), Japan (1), and Neph

(104) were the result of importation free

In Africa, WHO reported, progressor

India, Pakistan, end Bangladash.

Health Organization reported.

Medical Tribune World Service

Medical Tribune World Service

Advice for the Chronically ii

Mrs. Armeta Livingston, a member of

the Chronically-III Ladies Group at

Brooklyn's Downstate Medical Center,

tells a cardiae patient about pacemaker

surgery and how to live with it. The

group was organized to encourage the

chronically ill toward indopendence.

THE TOTAL PROPERTY OF THE PARTY Ontario MDs' Medicare Records to Be Checked

TORONTO-Ontario physicians who treat an unusually large number of patients under Medicare are going to have their records closely scrutinized by the College of Physiciana and Surgeons of Ontario, the province's professional licensing

The college announced here that any doctor who provides more than 300 unita

an office visit, is worth \$6. A house call, at \$9, would be a unit and a holf.

The Ontario Medical Association has agreed to set up a joint committee with the Government that would determine how much and how doctors should be paid.

Dr. Richard T. Potter, Oatnrio Minister of Health, said the Government has no intention of putting all doctors on salary. of acryice to patients in a week will be But he stressed that the ceiling set on n

subject to investigation. A unit, equal to physician's work load by the college demonstrates concern for the quality of

"As a family physichm myself, I know that the ductur who is seeing more than 300 puttents a week is getting dammed little slach and doing nothing else," Dr. Potter declared. He sold that he "can't hay the cluim" by one physician who billed the Medlenre system for seeing 316 pu-

Breast-Feeding Has Dropped 49% in Sweden

Medical Tribune World Service

STOCKHOLM-From 1944 to 1970 the number of six-month-old Swedish babies being breast-fed dropped from 56 per cent to 7 per cent.

In an effort to discover why, Drs. Yngva Hofvander and Stig Sjolin, of the pediatric clinic at Uppsala's University Hospital, gave one-hour questionnaire interviews to 298 mothers of 302 children.

The investigators found that on discharge from the maternity ward, 72 per cent of the women were brenst-feeding exclusively and 87 per ceot partially. The frequency dropped rapidly after their re-

Average duration of breast-feeding was nine weeks. By the and of the first month. 56 par ceot had stopped completely or had introduced regular alternative feeding forms. By the end of the third mooth fewer than one-third were still breast-feeding and only one-sixth exclusively. At alx months, 4 per cent were still breast-feeding

92% Planned to Breast-Feed

Some 92 per cent of the mothers seid they had planned to breast-feed, most of them "as long as they could," at the time of delivery. Asked directly what they thought about breast-feeding, 68 per ccat said they liked it "e lot" or "relatively much," Only II per cent admitted to not liking it.

The main reason for stopping reported by 66 per cent was that they "just ren dry." Only 10 per cent blamed "fmulty breasts" or "deficiencies in their children,"

"Most mothers are, or pretand to bc, unaware of the real reasons for early discontinuance of breast feeding," Dr. Hofvender commented.

Whoo asked why they thought other mothers discontinued breast-feeding early, the mothers provided answers that in many cases were al variance with those they applied to themselves.

Japan Plans to Establish Continuing MD Education

Tokyo-The Health and Welfare Ministry plans to establish a system of lifelong education for doctors. Ten professors are to be selected from the Jepan Medical Association to draft the details of the program.

Medical Tribune World Service

Uoder the proposed system, all physiclans will be required to uodergo regular qualification tests.

Physical and mental fatigue, for example, was given as a reason for cessation in others by 17 per cent, against 8 per eent for cessation by themselves. Also, 27 per cent thought others considered breastfeeding "messy," while only 5 per cent thought so themselves, Similarly, 38 per cent thought others considered breastfeeding to be uncomfortable and an encroachment on personal freedom, whereas only 4 per cent felt this themselves,

Only 0.5 per cent of the mothers offered personal appearance as a reason fur having terminated breast-feeding. But 12 per cent believed this to have been the reason among other women.

"It is probable," Dr. Hofvander snid, "that the mothers' conception of why othera terminate brenst-feeding to a certain, perhapa n great, extent is an unconscious projection of their own experiences, and thus best reflects their own feelings."

Mercury Pollution Warnings Send Sale of Fish Tumbling

KYUSHU, JAPAN-Wnrnings by the Government of the dangers of mercury pollution have sent fish salea tumbling in markets throughout Japan and created storage problems for fishing fleets and distributors,

Tentative tolerance levels for mercury in fish and shellfish bave been act at the world's lowest levals, on the basis of a report by a group of experts set up after tho third confirmed outbreak of Minnanta disease in Kyushu in May.

The weekly intake for an adult has been fixed at 0.17 mg, of methyl mcreury, The average concentration of all mercury must be below 0.4 ppm, and 0.3 ppm in the case of methyl moreury, compared with 0.5 ppm of all mereury set by the United Sintes and Canada end I ppm by Swedon and Finland, The experts warned that pregnnat women, in particular, should strictly observe the levels indicated beceuse of the susceptibility of the fatus.

The Government has also issued a typical menu in its efforts to get citizens to hold their fish and shellfish intake to 567 Om, per weak. One example for a week's consumption listed four small horse mackerel, half of a medium flatfish, and one medium aquid. Another example was three young punctatus, one mackerel pike, one prawo, and 20 alices of raw tuna.

Health experts warned further that the

Urinary Infections Found Medical Tribune World Service

DuaLIN-A recent survey of 17,000 schoolgirls here showed that 2 per cent had unsuspected urlnary infection. Of those infected more than balf, almost 200, hed an underlying abnormality of the kidney or bladder.

567-Gm, weekly limit refers to dried fish. fish meal, canned fish, and hain and sausage made from fish.

But, after the initial scare, the Government's Environmental Agency came out with a revised list of fish quantities-about double the first list-that could be safely consumed in a week.

Airplane Exhaust Fumes Are Called Major Cause Of Pollution in Japan

Medical Tribune World Service

YOKOHAMA, JAPAN-Exhaust fumes from alrernft, not automobiles, are the major cause of photochemical smog in Japan, according to Prof. Tetsuzo Kitugawa, of Yakohnnin Natlonal University,

The large quantities of exhaust futnes discharged by jet planes flying through the inversion layer become oxidized by strong rays of the sun, according to Professor Kitagawa's theory. His studies found that the exhaust fumes combine with vapor and they become three times heavier than the air. This mass then descends to just above ground level, causing localized photochemical smog.

He found that the smog usually occurs near airfields, especially in cities located between 35 and 45 degrees north latitude, which are exposed to tho sun's rays at ccrtain angles. This explains, he said, why the smog frequently occurs in arees where vehicular traffic is relatively light.

A DCs aircraft, he seld, consumes 25,-800 L, of fuel when climbing, about 4,000 times the average amount consumed by a

MDs Told to Set **Own Standards** Or Lose Control

New YORK-The Federal Government's top physician reminded the American Medical Association here that if the medical profession does not set the standards for medical care, the job will be done by "some bureaucratic agency in Washing-

Dr. Charles C. Edwards, assistant secretary for health in the Department of Health, Education, and Welfnre, told the A.M.A. House of Delegates that "the public is not going to accept a continuation of things as they arc." He emphasized that "if physicians continue to insist on the freedom to exercise their own professional judgment, then they must accept the resoansibility to assure the quality of the care they provide."

He said the A.M.A. was "making the right choice" by taking nn active rule in development of the Peer Standards Review Organization concept that came into law last fall with H.R. 1. He pointed out there were other activities that the A.M.A. might get into.

Far instance, said Dr. Edwards, the recent passage of legislation extending mnny Pederal health programs for another year provides "a challenge und an uppurtunity to take another look at . . . Regional Medical Programs, Hill-Burtun, Cummunity Mental Helath Centers, and the rest."

Dr. Edwards conceded that the Government had been "too long without n clear, articulate national health strategy . . , because the Federal health enterprise has not been organized to develop one." However, "we are now in the process of pulting our own house in order," he said, "for the coordination of our efforts and for pruductive communication with those ontside

PulmonaryEdema May Still Follow Drowning Rescue

Medical Tribune Report

Naw York-Tho risk of death from drowning does not end once the victim has becarevived, a lending investigator warned here, adding that all near-drowning victims who require artificial respiration shauld be hospitalized for 24 hours Immediately after the accideot.

Lung damage can occur even if water is not breathed into the lungs, said Dr. Martin J. Nemiroff, of University Hospital, Ann Arbor, Mich. The brief period of suffocation and lack of oxygen during submersioa can cause pulmooary edema, he warned the American Lung Association. He stressed that near-drowning and related deaths are not recorded by law and thus, he suggested, their incidence may be more common than realized.

Eight Cases Described

r. Nemlroff described eight cases with ona death in one geographic area. Six of the eight walked away from the scene of the accident, only to be hospitalized after rapidly progressive ahortness of breath two and s half to 12 hours later. Another wes hospitalized immediately, and one died a half hour after near-drowning.

The amount of fluld in the lungs of the even survivors varied, but increased in all of them during the first 24 hours after the near-drowning. The edeme led to hypoxemla, hypercapnia, and metabolic acidosis, The near-drowning also caused damage to the lungs' capillaries.

Coatinuoua positive-pressure breathing was used to prevent both luog collapse and the seeping of fluid into the lungs. Three patients whose x-rays showed the greatest amount of fluid in the lungs also required endotracheal intubation.

Federal Safeguards Urged **Against Sterilization Abuses**

NEW YORK-The Planned Parenthood Federation of America has called on the Government to set up a working conference of experis to help draft Federal safeguards against "potential abuse" of contraceptive sterilization in persons who are "uncdiseated, young, enjotionally immature, or mentally retarded."

Condemning the sterilization of several young girls by the Montgomery County Community Action Agency in Alabama, Dr. Allan F. Guttmacber, federation president, said: "In our view it is imperative that the Department of Health, Education, and Welfare issue regulations or guldelines to govern the provision of sterilization in Federal programa,"

Views Given in Letter

His views were made known in a letter to Dr. Louis Hellman, deputy assistant secretary for population affairs.

Dr. Guttmacher reaffirmed the federation's support of voluntary sterilization "for anyone who is fully informed of the nature of the procedure and who is muture

enough voluntarily to decide on this per-manent method of birth control," but he pointed to the "particularly difficult ethical and legal problems associated with the treatment of retarded and immature persons" where sterilization is offered.

The working conference, he suggested, should consist of "knowledgeable representatives of professional medical organizations, consumers, the bar, state and local health officials, experts in the field of retardation, and family-planning program adminiatrators."

"Twenty-Fifty Wedding Anniversory dates are on the calendar in May and June for several members and warmest wishes and congratulations go to. . . .

-Dr of the Lehigh County (Pa.) Medical Society.

Those the odds, or what?



Bobo's back at the big top

Without him it was the aecond greatest show on earth. A rheumatold arthritic flare-up kept him in the wings. Weeks of pain, atiffness, awelling and tendamess.

Next time, consider the prompt anti-inflammatory action of Butazolidin alka when aspirin falla

Your patienta won't have to wait a month for reaults. Naither will you.

Serious aida effects can occur. Select patients carefully (particularly the elderly) and follow them closely in line with the drug'a precautiona warnings, contraindications and adverse reactions.

For full detalla please read the prescribing information. It's summarized on the back of this page.

Butazolidin' alka

If it doesn't work in a week, forget it.

Geigy

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CLINICAL NEWS NOTE: "Fiberoptic colonoscopy constitutes a real advance in the diagnostic and therapeutic armamentarium of the medical profession." (Dr. William I. Wolff; see page 33.) Ob/Gyn: pgs. 1, 3, 4, 7, 8, 31, 32

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MHOICAL TRIBUNE is published each Wednerday except on Jan. 31, May 30, Aug 29 end Oct. 31, by Medical Tibune, Inc. 880 Third: Aye., New York, N.Y., 10022. Controlled by Culation postage paid at Farmingdale, N.J., 11733. Subscription \$12.50, Students, 37.50.

What's new and important in perinatal medicine?



The Consultant

DR. ROBERT J. LUBY Department of Obstetrics and Gynecology Creighton University, St. Joseph Hospital, Omaha, Neb.

". . . a significant reduction in perinatal mortality remains to be achieved in this country....

THE NEW AND IMPORTANT DEVELOPMENTS in periantology may be considered In three calegories: first, loboratory studies; second, equipment; and third, the impact of inhouse newborn specialists on observed newborn death rates.

First, the ability to study amniotic fluid phospholipid levels ond to predict, with reasonable accuracy, those infants with pulmonary maturity has been most helpful.

Since Gluck's original report, we have used his exact technique in our labora- mediate pattern and with immature patproducible. To date, we hove seen no infonts die of respiratory distress with a mature pattern. We have encountered

tory and have found his results to be reterns who did not develop respiratory

In the aree of equipment, the aveilsevere respiratory distress with an inter- ability of necurate, relatively low-cost

monitoring equipment for labor and delivery units has improved significantly the quality of observation of the infant during labor. The expenditure of \$7,000 to \$8,000 per unit, while significant, pales when one considers the cost of new diagnostic or therapeutic radiology equipment. This monitoring, plus the dentonstrution and availability of positive pressure frontment for the neonate, is extremely promising

Dr. Graeven and others have shown repentedly, insofur as the third category is concerned, that infant death rates are reduced from 15 to 17 per thousand live birthe to under 10 per thousand live hirths with the presence of a newborn specialist and his supporting skills in the delivery unit, it is obvious that prampt attention to required rentlintory and chemical resuscitalion is rewarded in terms of useful life

When should amniotic fluid be analyzed to determine fetal maturity and how is this done?

Anthiotic fluid analysis for purposes of fetal maturity determination should be performed whenever this information conibutes to the management of the patient, c.g., pregnancies to be terminated by elective C-section when the estimated date of

Next In Consulation

Swedish Incest Today Has DR. MARTIN D. VALENTINE of the CL. nical Immunology Division, The John Hopkins University School of Medi-More Father/Daughter Unions cine, and The Good Semaritan Hospi. tul, Boltimore, Md.

relationship 175 per cent, if stepdaughters

were included), 20 per cent a brother/

sister relationship, and 1 per cent a

mother/son relationship. The remaining

cases consisted mainly of sexual contact

between men and minor grandehildren or

The cases were recorded at the Clinic

tor Forensie Psychiatry here during the

years 1934-55. Comparison with material

from the 17th and 18th centuries showed a

basic similarity in the proportions of

brother/aister and mother/son relation-

ships. Unions between fothers and daugh-

ters, on the other hand, were considerably

more prevalent than several centuries ago.

Partnara Wara In-Laws

to the 17th century, the largest group of

locesiuons pertners was composed of brothers-in-law and sisters-in-law, a rein-

tionship no longer considered incestuous

in most countries. The penalty for such a

unloo was usuelty death. Swedou atscon-

tinued the denth penalty for alt forms of

The facest study was described at Swe-

den's Royel Academy of Sciences here by Dr. Carl Heavy Alstron, Professor of Psychietry at Korolinska Institute. He suld

it is difficult to arrive nt u valid estimate of

Incest In 1864.

. will discuss such subjects as: STOCKHOLM-Incestuous unions between

fathers and daughters account for a sig-• First sleps in the management of nificently larger proportion of incestuous patient presenting with severe seasonal relationships in Sweden in modern times than in the 17th and 18th centuries, ac-

• How further work-up with such a cording to a study at Karolinskir Institute. putient is curried oul. What results con be expected from Investigation of 465 incest cases showed that 60 per cent were a father/daughter

• What is the value of skin tests? Do emotional fuetors influence or trigger symptoms of hay feyer?

huy feyer.

desensitization?

confinement is uncertain, some instance of third trimester bleeding to eid in the timing of double setup examination, prenuncies contpliented by diabetes and the sensitization, and pregnoncies with seven toxemia. This is not all inclusive and in general, whenever determination of leaf muturity provides the clinicien with infomation justifying the risk of the amaiocentesis, it is an indicated procedure,

Antiniotic fluid is obtained generally by transabdominal amniocentesis. I prin using Freda's technique of meouslas nlucement of the head, in those cases no rssociuled with third trimester bleeding and penetration of the uterus immediate overlying the hairline approximately cm, above the puble symphysis, alter the patient has voided, Pincental localization prior to dingnostic amniocentesis, if milable, is worthwhile. We studied emplois fluid ereatinine levels, osmolality, dela

"It is important that when the anniotic fluid is drawn that it should be analyzed inmediately ...'

optical density at 450 millimicros, as well as the lecithin/sphingomydia ratio, ullinded to above. None of these tests by themselves are 100 per cent reliable. The creatinino is a mensure at muscle mass, the usmainlity of fetal renal development, while the lecitlin/sphingomyelin will mensures the presence of the phospho lipids in the pulmonory system.

In terms of Infant survival, the most significant limiting factor is pulmonary function. Thus, if we find intermediate of mulure LS rutlo, we are not the least hi uncomfortable with Immediate delivery. We have encountered a patient, whose felus had proximal femoral sod dala femnral and proximal Ilbial epiphysis, who underwent amnlocentesis for soother 100 son and had an immature LS ratio. Th infant did indeed develop respiratory Iress, even though there was radiologic evidence of akcielal maturity. Soms have reported LS ratio to be inaccurete in ph liente with diabetes. This bas not been out experience, nor has it been Dr. Glucki experience.

It le important that when the amnio fluid is drawn that it should be analyzed immediatoly or certainly within the fin three to four hours. Most leboratories at oble to provide this service, and the report for us is ovallable usually within two hours of obtaining the fluid.

Under what eircumstances is elec tronic monitoring advisable du ing delivery and what should it in clude?

The answer to this question is oot "in," as they say. What remains to demonstrated is whether routioe electron monitoring during every patient's laborated can completely prevent interpartum mortality. Saling indicated, in his experience, that combining electronic monitoring with fetal scalp sampling and intervening when significant fetal compromise was lodicated by heart fetal compromise was lodicated b by both of these procedures could result in avoiding all instances of intrapartum death. Most institutions apparently are monitoring those so-called high risk pres nancies. It has been demonstrated the ap-Continued on page 34

the incestions fothers (16 per cent) than antong fathers in the general population (1.5 per cent)

incestuous relationships with their fathers subsequently married. This was about 20 per cent more than could be expected. according to general population figures. The number of children, however, was 15 per eent less than expected, the study

The doughters displayed surprisingly few overt neurotic symptoms, said Dr Alstrom. Positive relations-even sexually - to their husbands were reported by 80 per cent of the married daughters.

Hulf the daughters did not have any contact with their fathers after the Irial, hut 20 per cent resumed a ctose and reguar conlact with their fathers after the latter's release from prison or from a mental hospital.

Temper tantrums... sudden changes in

mood...impairment

Melleril helps calm the agitated geriatric patient. It not only

repaired, but the patient with sanile psychosis due to argenic

reduces agitation but elso diminishes anxiety, excitament,

and hypermothity. Of course, neurologic deficit cannot be

brein syndrome cen frequently obtain meaningful

of orientation

symptometic relief with Meliarii.

geriatric with

for the agitated

senile psychosis

[thioridazine

TABLETS: 50 mg. thioridazine HCI, U.S.P.

particular geographic or sociol ores, Dr.

On the other hand, the frequency of nonqualified workers was higher among

Daughtars Later Married

Two-thirds of the daughters who had

3-Volume Radiology Text Published

Dr. Isadore Meschan, Professor of Radiology and chairman of the department at the Bowmen Gray School of Medicine, Waka Forcel College, Winston-Salem, N.C., is shown with his new three-volume radiologic textbook, Analysis of Roentgan Signs in General Rudiology. The book, which is published by W. B. Snumlers Co., le the largest single-author general radiologic text ever published.



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mporten i Nois: This drug is not a simple an sigosio. Do noi administer casually. Care fully pvaluate patients before starling treatment and keep them under close supervision. Obtein e detailed history, and complets physical and leboratory examination (complete hemogram urinalysis, etc.) before present ing and all frequent intervals thereafter. Carefully assect patients, avoiding those re-eponetive to routine measures, contreladi-cal ad patients or I hose who cannot be ob-served trequently. Warn pallents not to exceed recommended doesge. Short-lerm relief of severe symptome with the smallest possible doesge is the gost of therapy. Doeage should be taken with meals or a full glass of milk. Substitute sike capsules for tablets to cour. Patiente ahould discontinue the drug and report immediately any sign of lever, sore throat, oral lesions any sign of: lever, sore litroal, oral lesiona (symptoms of blood dyscrasis); dyspepsia, spigastric pain, symptoms of anemis, black or larry stools or other evidence of intestingluicaration or hemorrhaps, a kin reactions, significant weight gain or edems. A one-week trial period is adequate. Olecontinue in the absence of a teverable response. Restrict absence of a tevorable response. Restrict treatment periods to one week in patients

eausers were above and a second a second and arthritis, rheumetold spondylitis. Contraindications: Children 14 years or less: nila patienta; history or symptome of G.1. itammation or utagration including severe, urreni or perstalent dyspepsis; history or sence of drug allergy; blood dyscrasies; presence of drug allergy; blood dyscrastes; renal, hepsito or cardiac dystunction; hyperianalor; thyroid disease; systemic edama; atomatitis and salivery gland enlargement due to the drug; polymysigla rheumatics and lemporal alteritis; patients receiving other potent chemotherspeutic egents, or long-larm salibosgulant therapy.

Warnings: Ago, wolghi, dosage, durellon of therapy, existence of concomitant disasege, and concurrent potent chemoinsrapy effect incidence of loxic reactions. Carefully in-struct and observe the individual pations. especially the oging (torty years and over) who have increased susceptibility to the tox-lelty of the doug. Use lowest effective desage Weigh initially unprediciable benefits ageins printial risk of severe, even less, reactions The disease condition itself is unaltered by the drug. Use with ceution in that Irimester ol pregnancy and in nursing mothers. Orug may eppear in gord blood and breast milk. Serious, even latel, blood dyscrasiae, includaerous, even istal, blood dyscrasiae, including a plastile anamis, may occur suddenly despite regular hemograms, and may becommanilest days or weeks after cessation of drug. Any alignificant change in total white ocurs, reletive door ease in granulocytes, appearance of immature torms, or tall in hemetocril should signal immediate cessation of the crown and complete betweet the control of the crown and complete betweet the central state. Iton or therapy and complete netrational investigation. Unexplained bleeding involving CNS, adrenals, and G.I. Iraqi has opcurred. The drug may potentiate action of insulin, suffonylures, and suffonamide-type agents. Carefully observe patients teking these agents. Nonloxio and toxic gollers and movedame have been careful files drug. reduces in laws been reported line drug reduces incline uplake by the thyroidt. Alurred vision can be a significent loxic symptom worthy of a complete ophthelmo-logical exemination. Swelling of ankles or tage in exemination. logical examination. Swelling of ankles or face in patients under sixty may be prevented by reducing dosage. It edema occurs in petients over aixty, discontinue drug. Precautions: The following should be eccompilated at regular intervals: Caratul detailed history for disease being treated and detection of earliest algue of adverse resoctions: compilate attention of earliest algue of adverse resoctions: compilate attention in the properties. detection of earliest signs of solverse resctions; complate physical examination including check of patient's weight; complete weakly (especially for the aging) or an every lwo week blood check; perfinent laboratory studies. Caution patients about participating in activity requiring alertness and coordination, es driving a car, ale. Cases of laukemla have been responded in patients with a history of short- and long-term therapy. The majority of these pellents were over forty. Remember that artiritio-type patis can be the presenting symptom of laukemla.

Adverse Resctions: This is a potent drug; its misuse can lead to serious results. Review detailed information before beginning.

inaropy. Ulcerotivo osophaniilla, acutomini rosolivated gasirle and rtuodentui utgor with perforation and homorrhago, ulceration and perforation of largo bowol, occurt G.I. bis ortino with anemia, qualdritis, epigasirio pain, hometemesis, dyspepsia, nausse, vomiting end diarrhea, ebdominal distention, nitranulosytosis, aplostic enemio, hemolytic anemie, enemia due lo blood losa including occult G.I. biseding, thrombocytopania, pancytopania, leukemie, leukopanie, bona marrow depression, sodium and chioride retention, water retention and edema, pteema ditution. water retention and edema, plasma distriction, respiratory atkaloala, metabolic ecidosia, latel and nonleiel hapalitis (cholestea's may or may not be prominenti, petechiae, purpura without thrombooytopenia, toxio pru/itus, wilhout thrombocytopenia, toxic pruntee, arythema nodosum, erythema mulriforme, alevens Johnson syndrome, Lyell a syn-drome (toxic necrolizing epidermolysis), exiolistivedermeillia, serum alckness, hypor-sensilivity angillis (polyadertils), snephytoc-tilis (supply angillis) polyadertils, snephytocsensilivily anglilis (polyariertilis), anaphyto lic shock, urliceria, arthralgia, lever, reshes iria. hemajuria, oliguria, anuria, renai lariure ureferal obstruction with uric acid crystal due to uricosurio action of drug, impaired renel function, cardiac decompensation, hypertension, pericarditis, dilituse injerstiliai myocardhis with muscle necrosis, perivascular (renulomais, aggravation of temporal arteritis in pallants with polymyalgis rheumalice, optic neuritis, blurred vision, retinal hemorrhage, loxic amblyopis, retinal detachment, hearing loss, typerglycemis, ihyroid hyperplasis, toxic gotter, essociation of hyperthyroidism and hypothyroidism (causal relationath) not established), agitalion, contusional states, lethergy; CNS reactions associated with overdosage, including convulsions, euphoria, psychosis, depression, headschas, italiucinations, indiness, vartigo, come, hyperventiliation, incomnis; utcerative stomalitis, salivary gland shisrgament. hypertension, pericarditis, dilluse injersilla ative signalitie, selivery gland gement. (8)98-148-070-H(10/71)

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the frequency of Incest in Sweden, partly because welfare authorities are more often coaceroed with the health and well-heing of the child than with legal action, Earlier studies, however, indle ote that the number of persons convicted or acquitted of incost in Swedeo each year is about 30. Dr. Alstrom made o follow-tip study of parl of the 1934-55 material and found that there were 246 families with father/ daughler incest and that, in all, 333 daughlets were invalved in incestmous relation-Two-thirds of the fathers were found to he under 45 years of age at the onset of their illicit behavior; only one-fifth wero over 50. All were married. Daughters' ages were, on the average, very low. Two-thirds of the contacts went as far os coitus. In almost half the cases that were studied the relationship lasted three years,

and in 5 per cent 10 years or more, Relationships Wara Rathar Long "Thus, it is a question of relationships of rather long duration," sold Dr. Alstrom, "and it is hardly possible that they always occurred at the insisience of the father. Nor have they been initiated in this way. Closer analysis shows that they have

started with natural 'cuddling.'" At the coset of the incestuous relationship, 61 per cent of the fathers resided in the countrysida-a ratio that was in agreement with the distribution of the populaloo as a whole. Thus, father/daughter incesluous contect is not concer

Fal Women Are More Attractive When Fear of Starvation Exists

· Medical Tribune World Service Quenac-In times or places where men ear slarvation, the fat woman is beautiful So says Dr. Ican Tremolières, Professor of Biology and director of the Laboratory of Human Nutrition, Bichat Hospital, Paris.

A woman's plumpuess offers reas-surance that the fear of starvation will oot coma true, be told the Canadian Pediatric Society. Venus typified beenty at a time in history when starvation was a constant worry.

Modarn woman, "who looks like a nan," is considered beautiful because man's greatest fear is not lack of food "but loss of his sex," he said.

Balare prescribing or administering, see Sander literature for full product information. The following is a brief summery.

Contraindications: Severa central narvous system depreasion, comatose states from eny causa, hypertensive or hypotensive heart disease of

Warnings: Administer cautiously to patients who have previously exhibited a typersensitivity reaction (e.g., blood dyscrastes, jaundice) to phenothlezines. Phenothlezines are capable of potentiating central nervous system depressants le.g., anasthetics, opiates, alcohol, etc.) as well as attorine and phosphorus insecticides. During pregnancy, administer only when the potential benefits exceed the possible risks to mother and tetus.

Procautions: There have been infrequent reports of leukopenia and/or agranulocytosis and convulsive seizures. In epileptic patients, anticonvul-sant medication should also be mainteined. Pigmentary retinopally may be avoided by remaining within the recommended limits of dosage. Administer cautiously to patients participaling in ectivities requiring complete mendet electroses (e.g., driving), and increase dosage gradualty. Orthostalic hypolension is more common in females then in males. Do not use epinephrine in treating drug-induced hypotension since phenothiazines may induce a re-



versod ephaephrine elloct on occasion. Daily doses in excess of 300 mg. should be used only in severe neuropsychiatric condition

Adverse Reactions: Cantral Narrous System—Drowsiness, especially with large doses, serily in tree imont; infrequently, pseudoparkinsonism and other extrepyremidal symptoms; noclumel confusion, hyperactivity, lethargy, psychotic reactions, restlossness, and heedache. Autonomie Narrous System—Dryness of mouth, blurred vision, conalipation, nausea, vomiting, diarrhea, nasef stulliness, and pallor. Endorrine System—Gelaciorrhee, breest ongorgament, emerorrhea, inhibition of ejeculation, and peripheral edema. Skia—Domattia and skin employee of the religiorial type, photospecialistics.

emenormes, indication of ejeculation, and peripheral edema. Skin-pormatitia and skin eruptions of the unicarial type, photosensitivity. Cardiovascular System—ECG changas issee Cardiovascular Effects below). Other—A single case doscribed es parotid swelling.

The following reactions here occurred with phenothiazinas end should be considered. Autonomic Reactions—Mosis, obstipation, anorexie, peralytic liaus. Cutanaous Reactions—Erytheme, extoliative dermettis, contact dermatics. liaus. Cutoneaus Reactions—Erytheme, extoliative dermetitis, contact dermalitis. Blood Dyscrasias—Agranulocytosis, feukopenia, eosinophilia, thrombocytopenie, snemia, apissic enamia, pancytopenia. Allorgic Reactives—Fever, laryngeat adema, angioneurotic edema, eathma. Hepate taxicit—Easmeldica, billary stesia. Cardiovascular Elfacts—Chenges in terminal portion of eteotrocardiogram. Including prolongetion of Q-T interval, lowering end inversion of I-wave, and appearance of e-wave tentetively identified as e-billid T or a U wave have been observed with phenothrezines, including Maliarii Ithioridazine); these appear to be reversible end due to eltered tepoisrization, not myocardial damage. While there is no evidence of a causal raialionship between these changes and algniticeni disturbance of cardioc rhythm, several sudden and unexpected deaths apparently due to cardioc erreal have occurred in pallenis showing characteristic etectrocardiographic changes while leking the drug. White proposed, periodic electrocardiograms are not regarded as predictive. Hypotension, rerely resulting in cardiac arrest. Extrapyremidal Symptoms—Akathisia, agitation, motor resilessness, dystonic reactions, bilamus, forticollis, opisthotonus, oculogyric crises, Iremor, muscular rigidity, and skinesia. Persistent Tardiva Dyskinesia—Persistent and sometimes in tardiva dyskinesia. Characterized by lent and sometimes irreversible tardive dyskineals, charectarized by rhythmical involuntary movements of the tongua, face, mouth, or few le.g., rhythmical involuntary movements of the tongua, face, mouth, or lew (e.g., profusion of longue, puffing of cheeke, puckering of mouth, chewing movements) and sometimes of extremities may occur on long-term therapy or after discontinuation of therapy, the risk being graeter in elderly patients on high-dose therapy, aspecially famalas; it symptoms appear, discontinue all analysychotic agents. Syndrome may be masked it treatment is reinstituted, dosege is increased, or entipsychotic agent is switched. Fine vermicular movements of tongue may be an early sign, and syndrome may not devailed it movements of tongue may be an early sign, and syndrome may not devailed it movements. mot devalop II medication is atopped at thet lime. Endocrisa Disturbances — Menstrual Irregularities, altered libido, gynecomastia, leciation, weight gain, edeme, faise positive pregnancy tests. Urinary Disturbances—Ratention, incontinence. Others—Hyperpyrexia; behaviorsi effects nuggestive of a paradoxical reaction, including excitement, bizarie dreams, sggravation of psychoses, end loxic conjusionel states; following long-term treatment, e peculier skin-eys syndrome merked by progressive pigmentalion of ekin or conjunctiva and/or accompanied by discoloration of exposed sclara and cornea; stellale or triagular opacities of enterior lens and formes.

SANDOZ PHARMACEUTICALS, EAST HANOVER, NEW LERSEY 07938



Plantar Warts Dissected

HANOVER, N.H.-Blunt dissection of plantar warts is superior to surgical procedures employing sharp instruments, nccording to Dr. Worren M. Pringle and Donald C. Helms, of Dartmouth Medicsl School.

With a single treatment, the cure rate in 5g patients totaled 85 per cent after nn average follow-up nf 10 months-minimum of six months-which, the investigators said, was significantly higher than the 70 to 75 per eent ratea with desiccation and curettage reported by other authora. Other advantages, they added, are easy control of bleeding, short duration of pain (average three days), and absence of tender scar formation

Under local aoesthesie, they expinined, e biunt dissector is used in encircle the wart. Application of firm pressure and e peeling motion rapidly and precisely separates the lesion from the penpheral tissuc. A light, scooping motion under the base then separates the wart from ita loose coancetion with the dermia, leaving the dermis practically intect. The caliused mergins of the wound are trimmed, and it is covered with e pressure dressing that is replaced in two days with a Band-Aid.

Indirect Aneurysm Therapy

ROCHESTER, N.Y.-Indirect surgical treatment of intracranial erterial aneurysms may have a "aigoificant clinical advnntage" over direct surgical or nonsurgical treatment of this often fatai disorder, according to Dr. Frank P. Smith, of the University of Rochester Medical Center.

In the past 13 years, ha seid, differential cerotid artery ligation nchieved an 21 per ceot, two-year survival in 70 patients. This compares with the 57 per cent, twoyeer survival rete for direct surgical treatment and the 32 per cent rate for nonsur-

During this perind, he said, "I have not performed intracranial surgary for nneu-

Hip Replacement Improved

COLUMBUS, OINO-Putlents undorgoing total hip replacement with trochanteric osteotomy achieve better postoperativa performance than those without trochanteric osteotomy, according to Dr. Thomas H. Maliory.

When two groups of 25 patients were evaluated, one with and one without trochanterie asteotomy, the patients in both groups demonstrated consistent and "remarkable" railef of pain, However, thu ioss of limp, negative Trendelenburg's sign, and active abduction against gravity were aubstantially hetter 12 months postoperatively in the trochanteric eateotomy

group.
"The advantages of better exposure, less damage to the abductor mechanism. and restoration of hinmechanical equilibrium ere credited for the more astisfactory performance by patients undergoing total hip replacement with trochanterie osteotomy," seld Dr. Mallory,

Shoulder Pain Relieved

DENYER-Results of surgery of the shoulder in patients with rheumstoid erthritis are encouraging, according to a review of i6 cases hy Drs. Mack L. Clayton and Donald C. Ferlie,

Twn procedures in the 16 patients were performed because nf large bursal sacs, they reported, with relief of pain. Of the nther 14 shouldars operated on for pain, 13 had significant relief and the 14th did well for four months and then had a graduai return of pain tn the preoperative lavel. This failure was in a patient with rheumatold spondylitis and recurrent subiuxations of the shoulder.

"In no patient was there a decrease in the range of motion from that before surgery, and in nine the range of motion increased. No petient was made worse by the surgery," they reported.

Indium Compound Localizes Occult Tumors

RESEARCH

Medical Tribune Report

WASHINGTON-Many difficult-to-detect or occult tumors can be localized by using radioactive indium [1] in combination with a substance that is readily absorbed by tumor cells, a British javestigator has re-

Prelimiaary nnimal and human trials with the agent were described as encouraging by Matthew L. Thakur, of the British Medical Research Council's cyclotron unit at Hammersmith Hospital, London.

Mr. Thakur developed the technique for binding radioactive indium to blcomycin, an antibiotic produced by a strain of Streptomyces verticillus that is selectively absorbed by tumor cells.

Tumnr identification Facilitated

Clear pictures produced by the gamma ays emitted by indium111 allow identification of cancers of the brain, neck, colon, rectum, ovaries, breasts, and lungs, es well as secondary tumors that are often missed by other diagnostic agents, according to Dr. Malcolm V. Merrick, n colleague of Mr. Thakur.

The indium-containing compound was reported to have revealed evidence of secondary tumors in two of 20 patients with suspected brain tumors that had not been detected with technetinmon, Infarets were

distinguished from brain tumors is to other patients, the investigators self, et in other patients the indium confu helped to identify the presence of men gionna, which was also undetected technetium.

The study was reported in a recent sue of Chemical and Engineering New

Growth-Accelerating Effect of HCG Detectable by Measurement of Ulna

Medbal Tribum B'orbi Service

Ost.o-The growth-necelerating effect of human chorionic gonadatropin treatment la boys with puliertal growth retardation is detectable within three weeks by measurements of the uluar length, a Dutch investigator tuld the ninth Acta Endoerinologica here,

Dr. Ignatius M. Valk, of Catholic University, Nijmegen, reported that the pretreatment three-week uluar growth rate of 0.5 mm, was significantly lower than in a group of normal pulicital controls (0.9 mm.).

After the first three-week period of HCG trentment, the mean three-week

ultur growth rate increased to Line Corresponding growth rates at the add the second and third three-week prof of treatment were 1.4 mm, and 1.24 ac respectively.

Growth Accoloretian Cansitie

During the entire treatment po which varied from three to 33 weeks growth acceleration during gondone treatment appeared to be consistent b Valk said.

He also said that prolonged trains with chorionic gonatropins cause 16 sistent growth acceleration to suprance! pubertal growth rates,

Electrocochleography Used For Children, Balky Adults

VENICE, ITALY-Electrocochlengraphy is becoming a helpful alteroative procedure in auditory testing of children and adults whose cooperation connot be obtained. Dr. Moshe Feinmesser of Israel reported at the 10th World Congress of Otorhinolaryngology here. The technique records cochlear potentials by means of electrodes and an average response computer, as Dr. Feinmesser noted.

"Hawaver, it should be emphasized that cochleography should not be considered as replacement of conventional audiomeiry, evan with improvement of the method and accuracy of the results," he

Apply Electrodes to Earlnhes

Dr. Feinmesser, who is with Hebrew University Hospital, Jerusalem, said that in using electrocochlaography he and his colleagues apply electrodes to the earlobe and the scalp, as opposed to electrodes that pierce the tympanic membrane or the skin of the external auditury meatus.

"Wa feal that the earlobe and scalp sites

are more conducive to routine clinical use, and these same electrodes can also record the auditory cortical-evoked potential," he commented

The use of these two electrode sites permits the recording of five neural wavea, which represent activity geograted by the auditory nerve and by the brain-stem auditory nuclei, he said.

Dr. Feinmesser said that the technique being used for neonates, children with mental retardation, and cases of braiostem damage, nonorganic or functional hearing loss, and malingering.

One of the disadvantages of the technique, he acknowledged, is that the stimulua is an acoustic click, aod "this means that a cochieogram is a response mainly to bigh frequencies end does not give full information ea to all frequencies used in convectional eudiometry.

Also, the test does not appear to be as sensitive as pure-tone nudiometry, Dr. Feinmesser added.

Coauthor of the report was Harvey Sohmer, Ph.D.

MD Delivers His 3rd Generation



Dr. Owen L. Frank of Maqunketa, Iowa, has delivered bis nwn three children, two grandchildren, and now his great-granddanghter. Dr. Frank is shown with the new bahy and her muthar, Mrs. Phillip Brooks, whose husband is Dr. Frank's grandson.

Tition that is in it is

Nasal Polyps Rarely Seen

ATLANTA, GA.—Nasel polyposis is a rarity in children, occurding to e 10-yeer survey of the pediatric admissions in two Chicago hospitala by Dr. Gilbert Lanoff, Anthony Daddono, and Dr. Elolse Johnsnn, presented here at the American Coilege of Allergists meeting.

Of 84,489 admissions to Children's Memorial Hospital, nine children were admitted becausa of nasel polyps. Of 8,981 pedietric edmissions to an effliated general hospitel in the same period, eight children had nasal polypectomies.

About half the children with nasal polyps at Childreo's Memorial had recurrent pulmonary infections. Allergy was a rare cause of nasal polyps at thet institution, but there was a defiolte allergie history in three nf the eight children admitted to the general hospital.

Hyperactivity Assessed

SAN FRANCISCO-For each hyperactive child it is necessary to assess what is worse, the iliness or the treatment, Dr. Beyard W. Allmond, Jr., of the University of California, emphasized at a seminar here on Advances in Pediatrics.

Under the influence of drugs, he said, some byperactive children become "compulsive, isolated goody-goodies who are terrorized by threats of punishment and not capable of a decent daydream." In fact, he said, several parents have asked to heve medicatino stopped because of the "stranger in their midst."

Recent studies, be cautioned, have demonstreted that long-term treatment may retard growth in both weight nod height. Methylphenidate et doses of less than 20 mg., he nated, epparantly does not significently affect growth.

If medicetion with stimulants has a beceficial effect in the classroom, Dr. Alimond suggested, thay might be restricted to those periods when the child attends school.

Problem is Nutrition

OTTAWA-The most serious haalth probinm uncovered by e Pan American Health Organization survey of 15 regions was nutritional deficiency, Dr. Carlos V. Serrano, of PAHO, told tha Canadian Public Health Association meeting here.

Fifty-seven per cent of the children who dled under the age of five years were found tn have nutritinnal deficiency or immaturity as tha underlying or essociated cause, he said. The 15 regions surveyed consisted of 13 in Latin America, one in the United States, and one in Canada.

Withholding Surgery

AUCKLAND, New ZEALAND-Surgeons are increasingly coming to the helief that it is better to alinw some badiy malformed bahies to die, an Australian pedlatrie aurgeon declered here.

· They are also asking whether they should not select those patients they can repair, said Dr. E. Durham Smith, of the Rovei Children's Hospital, Melbourne, Hia own view. Dr. Smith said, is that if the hirth defect is not a potentially fatal nne, the surgeon is committed to repair it. If, however, it is certain that death would occur in the absence of surgery, the surgeon should ask himself whether the quality of iife available to the patient postoperatively would justify his intervention.

In spina bifida eases, he said, surgeons were earlier browbeaten into eccepting the position that they must operate immediately in all cases. But the kind of life that resulted for the child was so poor in some cases that it now seems morally indefensible to use maximum effort to ensure survival, he said.

Methods of assessment are so much better now that it is possible to predict reasonably accurately what quality of iife a baby wih a particular degree of malformetion will enjoy, Dr. Smith pointed out.

What the Sleep Research Laboratory recorded about DALMANE sleep...1
(flurazepam HCI)

reduced sleep latency

☐ decreased time awake after sleep onset a increased total sleep time

The polygraphic techniques of the sleep research laboratory have objectively documented the value of Dalmane (flurizepain tfCl) for patients with difficulty failing usleep or staying anleep

Especially of the superior of 30 mg capsoig of Dalmane at bedfilme generally indused sleep. within 17 minutes, significantly reduced furie awake after steep paragram and provided 7 to 8 hours of sleep. Dalmane after liveness was male. larred even ever 14 consecutive nights of administration. demonstrating the consistent effectiveness of Dalmane.

Bistore prescribing Dalmane (flurazepam HCI), please consult Complete Product Information, a summary of which follows

Ousage to acceptable to magnitude to the translation of Adults (30 mg asked to the translation of the same to the translation of the same translation

What the patients reported when they awoke1

☐ more rapid sleep induction increased duration of sleep

The utility of any sleep medication depends, ultimetely, on patient acceptance. For this reason, sleep laboretories evaluating Dalmane (flurazepam HCt) have obtained the patients own estimetes of their sleep immediately on awakening in the morning. These subjective evaluations have been in strong agreement with the polygrephic records, confirming polygrephic evidence of Dalmene effectiveness compared to piecebo.

N. Kales, J., et d.: Clin Phermacol. Ther., 12:891, 1971. 2. Frost, J.O., Jr: Data on tile, Medical Department, Hottmann-Le Roche Inc., Nulley, N.J. 3. Karacen, I., et al.: "The Siglep Laboratory in the Investigation of Siglep and Steep Obsturbances," Scientific Exhibit presented at Amer. Psychial. Assoc., Washington, D.C., May 3-7, 1971. 4. Kalea, A., et al.: Arch. Gan. Psychiat., 23:220, 1970. 5. Oement, W.C.: Data on tite, Medical Department, Hottmann-La Rocha Inc., Nutley, N.J. 2. Kalea, A. and Kales, J.: Phermacol. Physicians, 4:1, 1970. 7. Kales, A.: "Psychophysiological and Biochemical Changas Following Use and Withdrawal of Hypnotics," in Kalea, A. led.): Sieep: Physiology and Pathology, Philadalphia, Lippincott, 1969, p. 331. 8. Vogel, G. W.: Data on tite, Medical Departmant, Hottmann-La Roche Inc., Nutley, N.J. 9. Kalea, A., and Kales, J.: J.A.M.A., 213:2229, 1970.

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Medical Tribune Roport

New York-The forces against abortion surfaced again here at the annual convenlion of the American Medical Association in an effort to offset the organization's 1970 policy relaxation that mainly says "abortion is a medical procedure."

Four California resolutions tockled the issue in ways that ranged from decrying the lack of children available for adoption in taking "a positiva view of motherhood." A Louisians resolution wanted state legislatures to adopt an nmeadment to the U.S. Constitution that would make shortion a matter of states' rights.

A committee of the A.M.A. House of Delegates that conducted hesrings on tha California messures said that it received more than a hundred telegrams and other messages on the issue, plus "an official statement from the Committee of Doctors and Nurses Against Abortion."

However, said the house committee, tha existing A.M.A. policy provides that medical personnel shall not be compelled to perform abortions in violation of their medical judgment or moral principles. The committee recommended reaffirmation of

the 1970 policy.

And the delegates reaffirmed it, i spile of the contention by Dr. Joseph P. Donnelly, delegate from Newark, N.J. that "our present policy favors unlimited

Immediately afterward the house olse adopted a statement "affirming the traditionsi favorabic attitude of the medical profession toward pregnancy and motherhood." This entails the establishment of "counseling programs that will offer constructive help to expectant mothers in accepting and coping with the stresses of pregnoncy" and provides "incentives such as approval, appreciation, encouragement, and emotional support for a decision to continue pregnancy to term.

Amandment Called Premature

On the resolution for n U.S. Constitutional amendment, another house committee decided it was "premature" and suggested instead that the A.M.A. "monitor and study" the effects of the recent Suprema Court rnling that wiped out all state prohibitions against abortlon. The delegates agreed to that approach.

But they were not finished with moralitytinged issues, and the two following items proved less casy to resolve. Both wera introduced by the new Interns and Residents Section of the A.M.A.

On a asked that the organization work to end legal and employment discrimination against homosexuals and legol restrictions on sexual behavior between consenting adults. The house seot tha idea to the A.M.A. Council oo Mental Health.

The other resolution sought A.M.A. eadorsement of a program that would not ooly "teach morn and social responsibility" to young sters but also push for state laws to "allow coodom cootraceptives to he displayed and sold openly above the counter without age restrictions."

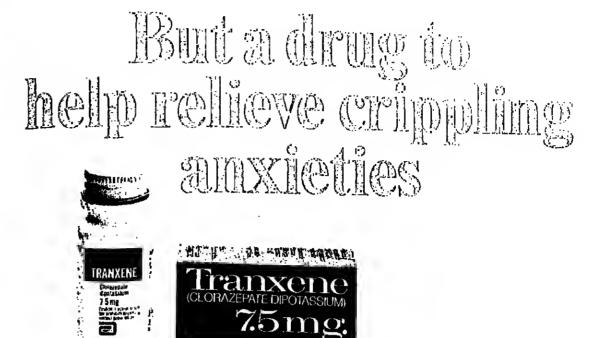
A Florida delegate took the floor to ask sarcastically whather the house also should approve "IUDs at Girl Scout meetings, agms in cereal hoxes, and 'the pill' in hubbla gum dispensers."

The delegate of the interna and residents, Dr. Eugena S. Ogrod, said he had to "regret the moral focus . . [when] the issua is venereal disease, oot pregnancy or morals."

Dr. Donnelly saw that item as part of "a great moral breakdowo" and waroed that "It won't solve our problems any more than other permissive actions have." He scorned the discussion liself, saying, "Goddamo it, ooce upon a time this organization had a moral conscience."

The delegates tabled the matter uotil It comes up again. The cext opportunity will be the November convention in Anaheim, Calif.

No panacea. No placebo. No antidote for the pressures of everyday living.



Tranxene has just one purpose: to offer effective control of symptoms for the patient with clinically manifested anxiety.

- -the patient whose auxieties are excessive and "inapproprlate" to the circumstances at hand
- -the patient with persistent (and often lnexplicable) feelings of dread
- -the patient who reacts unreasonably to reasonable stresses, to the point of incapacitation
- -the patient with a sense of impending death or catastrophe (often seen as a complication of organic illness, such as cardiac disease)
- -the patient with the physical symptoms of acute anxlety: sweating, insomnia, extreme nervousness, palpitations

Effectiveness shown in double-blind studies

The clinical investigation of Tranxene took place over four years, treatment periods ranged from

three week to six months

A total of 50 efficacy studies were conducted, under controlled, double-blind conditions. The overall results showed Tranxene to be highly effective in relieving the symptoms of anxiety.

Well tolerated by patients

Tranxene has an excellent record of patient acceptance. In the clinical studies, serious adverse reactions were not seen at the recommended doses. The side effects most commonly reported were drowsiness, light-headedness and gastrointestinal complaints.

Minimal cardiovascular effects

In the clinical studies, the only effect seen on blood pressure was the lowering of slightly elevated systolic blood pressure in some patients. There were no reports of bradyenrdia and, in the two studies where electrocardiographic effects were studied, no evidence of drug-induced alterations in ECGs.

Where anxlety symptoms must be controlled, Tranxene can be a valuable —and prudent—aid in management.

Headache Expert **Charges FDA Blocks** Valuable New Drugs

Medical Tribune Report

NEW YORK-The president of the American Association for the Study of Headache charged here that the Food and Drug Administration has blocked the introduction of valuable new drugs for migraine and

Asserting that the effort to "ensure safety for all is to deny therapy to any," Dr. Seymour Diamond declared that only five new prescription drugs were intro-duced in the United States in 1970, and "none of the 75 pharmaceuticals which were introduced in England between 1966 and 1972 have been approved for use la the United States."

He nnied that pizotyline and clonidiae have been found effective for use in some patients with migraine and headache, but he stressed that the drugs are not available to American physicians.

"Unwarranted" obligations placed upoa the FDA by Congress, Dr. Diamond said, "have caused years of delay in the latroduction of such excellent drugs as metronidszole, levodopa, litbium and nnother half-dozen fine products."

The FDA's reluctance to license new drugs has often forced physicians to use existing compounds in spite of FDA rules limiting their use, he asserted.

"All of us have used drugs such as propanolol, or the MAO inhibiture, or large doses of ergotamine tartrate in the praphylaxis of migraine. We have used these drugs la spite of the packago circolar or description of the drug which limits its usa to other purposes ar limits the amount af drug used to an insufficient amount to help the patient,"

He added that the exclusion of certain drug uses "intimidates the headacha praclitionar and laaves him liable to malprac-

Self-Help Units Win **Growing Acceptance** By Psychiatrists

Medical Tribuno Roport CHICAGO—A survey of persons participat-lng ln group meetings of Recovery, Inc., n national self-help organization of oervous or former mental patients, has disclosed that mare than one-third are attending the self-halp sessions on the advice of profes-

sional counselora. The lafluence exerted by referrals from psychiatrists, family physicians, social workars, religious advisers, and other professionals was reported by Dr. Hanus J. Grosz, Professor of Psychiatry, Indiaca University School of Medicine, Indianapolis, following a survey of 6,463 mambers among 500 Recovery groups.

Dr. Grosz commanted that acceptance of psychologic self-belp by psychlatrists reflects a growing trend toward endorsement of groups run by and for persons seeking to overcome particular problems or to gain streogth from mutual support so that they do oot relapsa.

Thirty-seveo per ceot of those surveyed were found to have heep referred to Recovery, Inc., by a professional adviser. A psychiatrist's advice accounted for 20 per cent of these referrals.

fn addition to the professionsi referrals, Dr. Grosz found that 23 per cent were referred by other Recovery members, 22 per ceot hy friends, and 15 per cent hy

Obesity, Drinking Affect Diving

Tokyo-Overweight skin divers and those who drink heavily are more likely to suffer from air embolisms, medical researchers at the Kitakyushu Workers' Accident Hospital reported. Dr. Kou Hayashi said a study of 300 skin divers showed that 90 per cent of the overweight divers and 95 per cent of the frequent drinkers have a history of the bends.

In three dosage strengths;







Dosage and Administrations Orally, in divided doses; usually daily dose is 30 mg. Dose should be adjusted gradually within range of 15 to 60 mg. daily. In olderly or debilitated patients, it is advisable to initiate therapy at a daily dose of 7.5 mg. to 15 mg.

OESCRIPTION: Chemically, TRANXENE (clorazepalo dipotassiam) is a benzodiszepine. The amptrical termula is $C_{16}N_{11}ClK_2N_2O_4$; the molecular weight is 408.93, The compound accera as a fine, light yollow, practically oderless powder. It is insalable in the common ergente

oderless powder. It is insolable in the common ergenic solvents, but very soluble in water. Aqueoas solutions ore analable, clear, light yellow, and althaline. A CTIONS: Pharmacologically, TRANKENE (clorazepata dipetassiam) has the characteristics of the beazedia-zeplace. It has depressant affects on the central aervous system. The primary matebolite, nordiazepam, reaches peak level in the blood stream at approximately theur. The plasms helt-life is about I day. The drug is metabolized in the liver and excreted primarily in the urine, (See AniMAL ANO CLINICAL PHARMACOLOGY INCICATIONS: TRANSCRED.

Section). INOICATIONS: TRANXENE Is indicated for the symptomstic reliet of sasiety associated with anxiety oeutoms in reliet of gastery associated with anxiety oeurosts, is ether psychonoeroses is which anxiety symptoms are prominent dastures, and as as adjunct in
disease states in which anxiety is manifested.

CONTRATNOICATIONS: TRANXENE (chorasepate dipotassiam) is contraindicated in patients with a

WARNINGS: TRANXENE IS not recommended for use in deptessive neuroses er in psychetic rasctions Patients on TRANXENE abould be cautioned against segaging in hazardous accupations requiring mental alerinses, such as epareting daagereus machinery

actuding motor vehicles.
Since TRANXENE has a central nervous system ance INAMALME has a central nervous system depressant effect, patients should be advised against the simplianeous use of either CNS-depressant drugs, and cautioned that the effects of alcohol may be in-

Secress at the lack of autificient clinical experience, TRANXENE (cloraspato dipolsasium) is not recommended ler use in pellents isse then 18 years of egg. Physical and Psychological Oependance: Withdrawat symplems (similar la character te those noted with berbliurates and atcohel) have occurred lattewing obrupt disconlinuance el clorazepale, Symptoms of nervoueness, insomnia, irritability, discrites, muscle aches and memory impairment have followed chrupt withdrawel after long-term are of high dorage,

Coution should be observed in patients who are our sidered to have a psychological potential for sec

dependence.

Evidence of drug dependence has been obserted in degs and rabbits which was characterized by the control of the c vulsive selzures when the drug was chretestage or the dose was reduced; the syndrome in dose to? he abolished by administration of cloratopile.

Usaga in Pragnancy: Reproduction studies have been parisonned in rate and rabbits and these was no avided. t herm to the snimel fatus. The relevance to the bam is not known. Since there is no experience in pregnit woman who have received this drug, salely to presency has not been established.

excreted in human milk. Therefore, this drug show act be given to aursing mothers.

PRECAUTIONS: In those patients in which a dept of depression accompanies the anxiety, sukidal jend cies may be present and protective messages may be required. The least emount of drug that is least should be available to the patient. Pallents on TRANXENE for prolonged periods show

have blood counts and liver tunction issis periodica The newel precautions in treating patients with in petient renail or bepatic function should also be observed. to elderly or debilitated petients, the initial dose should be small, and increments should be made gradually, in accordance with the response of the potent, to preclude statie or excessive sedeton.

AOVERSE REACTIONS: This side affect most fee quently reported was dre walness. Less common reported (in descending order of occurrence) with dizziness, various gastrointestinal complaints, servers nass, blurred vision, dry mouth, headsche, and mental contusion. Other eida ellects included inspirals, butstent skin rennes, teligue, ets xla, gantle-urinery com-plaiets, initability, diplople, depression and sturred

There have been reports at abnorms i liver and kidney fuccion lesis and et decreese in hemstocrit.

Decrease in systelic bloed pressere has bese

DOSAGE AND ADMINISTRATION: TRANXENE (correspond dipotassium) is administrated erally in divided doses. The usual daily dose is 30 mg. The dose should be seen the usual daily dose is 30 mg. should be adjusted gradually within the range of 15 is 60 mg, daily in accordance with the response of the patient. Drownings may occur of the initiation of tractment and with dearn incompanies to added or debiliment and with dosage increments, in alderly or debilifally dose of 1.5 to 15 mg.

DRUG INTERACTIONS: IT TRANXENE (clorazepate attium) is to be combined with other drugs octing oo the cookel nervous system, careful consideration skeel be given to the pharmocology of the agents to be amployed. Animal experience indicates that IRANYFEE malant the steamer time after hexobe amployed. Animal experience indicates that IRANXEME prelongs the steaping time after hexobability or after sinyt steaping time after hexobability or after single property of the benzodiezapines may be possibled by barbiturates, parenties phenethiszines, potentiated by barbiturates, nercotice, phenethiszines, ixidese inhibitors eretherenti-depressants.

Il TRANXENE h used to treat enxiety essociated paid to possible drug interaction with concernitation of the possible drug interaction with concernitant MANAGEMENT OF OVEROOSAGE: As is the men-

stement of overdosage with any drag. It should be borne in mind theil multiple agents may have been

It vamiling has not occurred spontaneously, it should

be induced, immediate gastric lavage is sice recom-mended. General supportive care, technique trequent mentlering at the vital signs and close observation at the petient, is indicated. Nypotension, though unlikely, may be controlled with Levophed® (leverterand) or Aramino® (metarsminol). Calteins and Sodium Senzaete injection, U.S.P. may be used to countered central norvous system depressant effects.

There has been reported a 41-year old women who

took 25 capsules (127.5 mg.) at TRANXENE. Severe dierrhas and vemilling occurred, but she mede en in reis and monkeye have shown a substantial dif-terance between doses producing tranquitizing, seds-tivo and toxic effects. In rate, conditioned avoidance response was inhibited at an arel dese of 10 mg./kg.; sedation was induced at 32 mg./kg.; the LDso wa 1320 mg./kg. In menkeys segressive behavior was raduced at the eral dose at 0.25 mg./kg.; sedstian (ataxia) was induced at 1.5 mg./kg.; the LD₅₀ could not be determined because of the ometic shact of large desas, but the LO₅₀ exceeds 1600 mg./kg.

Twenty-tour dogs were given TRANXENE orsity in s 22-month lexicity study; doses up to 75 mg./kg. were given. Orug reloied changes accurred in the liver: weight was increased and chelestests with minimal hepetocellular demega was teund, but lebuler architecture remained well preserved.

Eighteen rhasus monkeys were given eral doses al RANXENE from 3 to 36 mg. kg. daily for 52 weeks. All treated salmats remained similar to control animals.
Although total leucocyte count remained within nermat limits it tended to fall in the temsle animals on the

rodection Studies: Standard stadies of Jartiffic

teratology and reproduction were conducted on rate and rabbits. Oral deses in reta up to 150 mg./kg. end in rabbils up to 15 mg./kg. produced as abnormotiviting the latuses and so impairment to tartility on reproductiva capscity of adult calmels attributable to TRANXENE (clorazepate dipotassium). As expected, the aedetive effect of high doses interfered with care of the yeeng by their mothers (see Use in Pregnaacy). Clinical Phermacolegy: Studies in healthy men have showe that TRANXENE has depressent effects on the high desea (120 mg. daily as a single oral dese) was not tollowed by serious signs or symptoms. Absorption—Excretion: Atter oral administration of

tially so circulating parent drug. Nordiszepam, its primary metabelita, quickly appears in the blood atream with peak levels at about 1 hear. The plasms half-lies is approximately 1 day, in 2 volunteers given 15 mg (5g µC) of 14C-Tranzana, about 80% was recovered in the unine and teces within 10 days. Excretion was primarily in the urise with about 1% excreted per day en day 10.

NOW SUPPLIED: TRANXENE (dioiszepate dipotasslum) is supplied as capsulos to three de sage strongths: 3.75 mg. capsules (grsy with white cap) is bottles at 160 (NDC D74-3417-13) and 500 (NDC D74-3417-53). 7.5 mg. capacles (gray with marcon cap) in belilas of 100 (NDC 074-3418 13) and 500 (NDC 074-3418-53). 15 mg. capsules (ell gray) in bottles of 100 (NOC D74-3419-13) and 500 (NDC 014-3419-53). 307461



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... brief summories of editorials or guest editorials in current medical journals.

Monitoring the Monitor

"The errival of televisien tape recording in handy, color cassettes has aroused a blend of joys and fears in our profession.

... Its ability to simplify publication of scientific data and facts bas the power to make obsolate our conventional modes of scleotific reporting. . . . The spectre of the hit and run pamphleteer, as free of editorial review as the maker of home movies. comes to mind.

"Properly used, the new tool . . . saves time in getting e message to an audience: a point cen be made in a fraction of the bours that conventional writing requires.

... While trying to decide whether to be happy or just frightened by this new tool, somathing must be done to protect us from n flood of hit and run medlecrity.

"Specifically it will soon become necessary to establish professional review of these recordings. This will require the etteotion of our national and state societies." In the past these societies closely scrutinized physician-press reletions to "prevent public confusion and self-advertisemeet." Unfortunately, thet has stopped and, as a result, "in the public mind this has led to coastaatly rising expectations of cure. These have not been fulfilled. And they reseat it. With the arrival of television tape cassettes the time has come to reassert e sensible control over this . . . process." J. O'Rourke, M.D., editorial. (Eye, Ear, Nose, Throot Monthly 52:238, July,

Old Wine in New Bottles?

"In our scientific community 'new' is the byword. From some of our newer scientists rediscovery of some old-ond some not-so-old-truths come to light every now and then. And some of the rediscovered 'old' is frequently vlowed with suspicion such es formerly was reserved for the block-cat type of ideas.

"... Medient scientists might well beware of becoming so engrossed with highly technical scientific pursuits that they lose sight of the central sim of medicinenamely the reliaf of suffering through prerentico and freatment. Perhaps the inclusion of some of the not-so-sciontific remdies-old, now or old-new-ln our scientific armameotarium of therapy will turn oot to be the outstanding contribution of some of our colleagues during these days of change. Meybe acupuncture will turn out to be one of these-even if the physiologists and anetomisis, gross and micro-, are unable to come up with a proveble explanation for its effectiveness." Editorial. (W. Virginia Med. J. 69:128, May, 1973.)

Rectal Cancer in Elderly

The everage ege for Danish pottents with rectal ceocer is 67 years. Forty per cent of the patients ere over 70 yeers old, and we expect about 375 new cases in this age bracket every yeer. Experience has shown that the possibility for curetive frealment exists in only two-thirds of these, In my experience, low anterior resection can be carried out in one-third of rectal cancer patients, and this operation is less risky then rectal extirpation. Unpublished results show that operative mortality emong 95 petients in the ages 70-74 Was 8 per cent (34 low anterior resectioo and 61 extirpation, with one and seven deaths, respectively). Only after 75 years of age does the risk rise appreciably. It is difficult to set a certain age as a

Treatment of rectal cancer in the aged can consist of local elective congulation therapy instead of rectal amputation, low anierior resection, or pallistive colostomy. This limited therapy appears to have lete results that compere feverably with other methods and has no primary operative mortality. Mogens Sprechler, M.D., editorial, (Ugeskrift for Laeger [J. Danish M.A.] 135:22, May 28, 1973.)

Equal Abortion Rights Are Urged for Minors

SAN FRANCISCO—The American College of Legal Medicine has urged equal rights for minors in an abortion resolution adopted at its 13th International Conference on Legal Medicine here.

The resolution asserts that the college's previous position on abortion is to be applied equally to minors end adults.

"In addition, where state law demands arental consent," the reselution says, "it possible for the parents to effectively bviate the wishes of the pregnant minor. The ceilege recommends that e procedure be established whoreby a miner can seek the assistance and consent of the courts within a short period of time fellowing the parents' adverse decision."

Ceurt Decisione Cited

In another resolution the college cited recent court decisions awarding damages to relatives of a decedent where an autopsy was performed as outborized by one relative but unknown to other relatives." It recommended, therefore, that "legislation be enacted to authorize any single relative, guordian, or legal representative of a decedent to consent to a postmortem ex-

body for the purpose of determining the cause of death, for the advancement of medical or dental education and research, and for the general advancement of medical or dental science, provided that no person in a higher class exists or all persons in a higher class are not reasonably avnilable at the time of death."

The college proposed that the priority of classes be as follows: (1) the spouse; (2) an adult son or daughter; (3) either parent; (4) an adult brother or sister; (5) a guardian of the person of the decedent at the time of death; or (6) any other person who has been authorized or is under

The college also supported a resolution presented by Dr. R. L. Sadoff of Jenkintown, Pa., appealing to all elected and appointed officials to uphold the law to protect the privacy of all patients, and one offered by Dr. Herman Wing of Chicago, which stated:

"The American College of Legal Medicine condemna the infringement and en-cronchment on the confidentiality of physiclans' records even in their private offices, resulting from government proposals and third-party intrusions. This is a vicilation of proper medical-legal principles of the doctor-patient relationship."

Review of Neurosurgery Training Is Planned

Medical Tribune World Service

TORONTO-A commission to review requisites for training neuroaurgeons is to be set up soon by the American Board of Neurosurgery, the 64th meating of the So-

Dr. W. Kemp Clark of Dallas, Tex., chairman of an A.A.N.S. manpower study, said there will soon be 3,000 neurosurgeons in the United States, including 600 sons leaves no large unmet need.

now in training. He noted that most members of the epecialty are in thair early and late 30s, with very few in the upper age ranges. Based on the present birth rate, Dr. Clark said, there will be one neurociety of Neurological Surgeons was told, surgeon per 50,000 persons by 1985.

His remarks came after Dr. William Sweet of Beston said a recent study shows that one neurosurgeon per 160,000 pcr-



Ali eers are vuinereble to the pathogens responsible for office externa. Cortisporine Offic Drope cen help control them—the suaceptible elreins of Peeudomonas and Staph—

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 Treatment should not be continued longer than 10 days.
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*INDICATIONS: Seeed on a review of this drug by the Netlonal Academy of Sciences—National Research Council and/or other information, FDA has classified the indications as follows:

"Possibly" effective: For the freetment of external cities either due to or complicated by becterial injection caused by organisma eusceptible to polymyxin 8 suitate or neomycin suitate. It is elso valueble in conjunction with systemic therapy in infections of mastoldectomy and fenestration cavities.

Final classification of the less-than-effective indications requires further investigation.

calla). It is elso contraindicated in those individues who never shown hypersensitivity to any of its components.

WARNINGS: Articles in the current medical literature indicate an increase in the prevalence of persons allergic to neomycin. The possibility of each a reaction should be borne in mind.

PRECAUTIONS: As with other entiblotic preparations, prolonged use may result in the overgrowth of nonsucceptible organisms. Appropriate massures should be taken if the poours.

in otitis externa*

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 Cortisporin Otic Drops Sterile

(polymyxin B-neomycinhydrocortisone)

Each ce. contains: Aerosporine brand Polymyxin B Sulfate 10,600 Units; neomycin sulfate 5 mg. (equivalent to 3.5 mg. neomycin base); hydrocortisone 10 mg. (t%). The vehicle contains the inactive ingredients catyl elcohol, propylene glycol, polyeorbele 60, purilled water and thimerosal (preservative) 0.01%.

Complete literature available on request from Professional Services Dapi. PML.



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When cardiac complaints occur in the absence of organic findings, underlying anxiety may be one factor

The influence of anxiety on heart function

Excessive anxiety is one of a combination of factors that may trigger a series of maladaptive functional reactions which can generate further anxiety Often involved in this vicious circle are some cardiac arrhythmias such as paroxysmal supraventricular tachycardia and premature systoles. Since these symptoms resemble those associated with actual organic disease, the overanxious patient needs reassurance that they have no organic basis and that reduction of excessive anxiety and emotional overreaction would be medically beneficial.

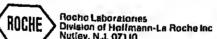
The benefits of antianxiety therapy

Antianxiety medication, when used to complement counseling and reassurance, should be both effective and comparatively free from undesirable side

effects. Extensive clinical experience for more than 13 years has demonstrated that Librium fulfills these requirements with a high degree of consistency. Because of its wide margin of safety, Librium may generally be administered for extended periods, at the physician's discretion, without diminution of effect or need for increase in dosage. (See summary of product information.) If cardiovascular drugs are necessary, Librium is used concomitantly whenever anxiety is a clinically significant factor. (See Precautions.) Librium should be discontinued when anxiety has been reduced to appropriate levels.

For relief of excessive anxiety and related cardiac dysfunction

adjunctive Librium 10mg (chlordiazepoxide HCl) 1 or 2 capsules t.i.d./q.i.d.



Before prescribing, please consult complete product information, a summary of which follows: Indications: Relief of anxiety and tension occurring alone or accompanying various disease states. Contraindications: Patients with known hyper-

sensitivity to the drug.

Warnings: Caution patients about possible combined effects with alcohol and other CNS depressants. As with all CNS-acting drugs, caution patients against hazardous occupations requiring complete mental alertness (e.g., operating machinery, driving). Though physical and psychological dependence have rately been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage; with drawal symptoms (including convulsions), fallowing discontinuation of the drug and similar to those seen with barbiturates, have been reported. Use of any drug in pregnancy, lactation, or in women of childbearing age requires that its potential benefits be weighed against its possible hazards

Precautions: In the elderly and debilitated, and in children over six, limit to smallest effective dosage (initially 10 mg or less pet day) to preclude araxia of oversedation, increasing gradually as needed and tolerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully considet individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, stimulation and acute rage) have been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been reported very rately in patients receiving the drug and oral anticoagulants; causal relarinnship has not been established clinically.

Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly and debilitated. These are reversible in most itisiances by proper dosage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances syncope has been reported. Also encountered are isolated instances of skin emptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido-all infrequent and generally controlled with dosage reduction; changes in EEG parterns (low-voltage fast activity) may appear during and after treatment; blood dyscrasias (including agranulocytosis), jaundice and hepatic dysfunction have been reported occasionally, making periodic blood counts and liver function tests advisable duting protracted therapy.

Supplied: Librium® Capsules containing 5 mg 10 mg or 25 mg chlord lazepoxide HCl, Libritabs Tablets containing 5 mg, 10 mg or 25 mg chlordlazepoxlde.



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Wherever it hurts, Empirin Compound with Codeine usually provides the relief needed.

HERE Biliary calculi



In general, only pain so severe that it requires morphine is beyond the scope of Empirin Compound with Codeine.

prescribing convenience: up to 5 refills in 6 months. at your discretion (unless restricted by state law); by telephone order in many states.

Empirin Compound with Codeine No. 3, codeine phosphate* 32.4 mg. (gr. ½); No. 4, codeine phosphate* 64.8 mg. (gr. 1). Warning may be habit-forming. Each tablet also contains: aspirin gr. 3½, phenacetin gr. 2½, caffeine gr. 1/5



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#3, codeine phosphate* (32.4 mg.) gr. ½ #4, codeine phosphate* (64.8 mg.) gr. 1

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On Death

year-old Nobel Laureate, carries a particular medical card in his pocket. It is unlike the usual ones stating, for example, that the bearer is a diabetic, Sir MacFarlane's card reads: "I request that, in view of my age, any prolonged unconsciousness. whether due to accident, heart attack, or stroke should be allowed to take its course without banefit of an Intensive cure or resuscitation word,"

Sir MacFarlane observes that modera medical science has become too successful In its ability to prolong life. He adds, "Once I reach the stage of pre-death, oll I ask is that I go on to the end with as much dignity and as little pain as possible. Death in the old should be necepted as something always inevitable und sometimes positively desirable. Physicians should not compel old people to die more than once,"

It is, of course, true that with modern resuscilative equipment unit various supportive measures life can lie prolonged or. perhaps more accurately, death can be warded off olmost Indefinitely, depending on the criterio of life and dentil. In a simpler past, and in the memory of many physicians, neither the equipment nor the measures were available, and death ensued in due course without any great ability to prevent or doloy lt.

And not so long ogo most deaths occurred at home, rather than in the hospital, because the ottending physician had judged hospitalization would be of no

recent repart in this newspaper noted value. Aside from sudden death, most A that Sir MacFarinae Burnet, the 73- deaths now occur in the hospital. It is estimated that 80 per cent of Americans die within haspitals or other institutions. In a survey of all deaths during a three-week period in an area in Wales, Dr. W. Dewi Ress reparted that of 50 people who diad. 13 died at home, 26 in a general-practitioner hospital, four in a chronic sick unit. and seven in other hospitals. So, even here, only 26 per cent died at home.

It is with these developments—the nvailability of potent death-ilelnying measures, vet the final exit of most people occurring within the hospital-that physicians are being compelled to assess their roles as going beyond that of physicians or, in the dictionary definition, "persons skilled in the art of healing." Within hospitals and medical schools attempts are currently licing made to direct attention to the dying. In the past, physicians have been reluctant to do so, often withdrawing from the dying because the experience has been personally too puinful, too disturbing.

When the great jurist Oliver Wendell Holmes was 94 years old, he addressed tho American people on radio. It was shortly before his death. His final words quoted Thucydides: "Death plucks at my ears und says, 'Live, I am coming.'" Perhaps that menus just what Sir MacFarlane's words do: "When the old reach a stage when they cannot cope for themselves, i is true compassion to bring that intolerable stage of pre-death to an end as soon as

Dietary Punishment

THE COUNCIL ON FOODS and Nutrition said it best. Noting that British prisons will abolish bread-and-water diet punishments, the honorable cabinet minister observed that "dietary punishment is out of persons on such diets. Whether it is bread and water or strict avoidance of carbohydrates, we submit that all diets are dietary punishment

One of Webster's definitions of punish-

as espoused in the new American Heori Thas said it forcefully, but we think British House Secretary Robert Carr has man and M. Winston). Reviewer John L. Hess does not quite buy the cheary fore-word of Dr. Campbell Moses, medical director of the A.H.A., who asserts, 'This is not a diet book. It is a cookbook-a fun place in the 20th century." The A.M.A. book for people who like to cook and to Council, reviewing Dr. Atkins' Diet Revolution and other low-carbohydrate keto-Beale weight reduction regimens in the June 4 issue of J.A.M.A., made much of the low-cholesterol diet, mr. Hess demura and anything less than the minute of the low-cholesterol diet, mr. Hess demura and anything less than the minute of the low-cholesterol diet, mr. Hess demura and anything less than the minute of the low-cholesterol diet, mr. Hess demura and anything less than the minute of the low-cholesterol diet, mr. Hess demura and anything less than the minute of the low-cholesterol diet, mr. Hess demura and anything less than the minute of the low-cholesterol diet, mr. Hess demura and anything less than the minute of the low-cholesterol diet, mr. Hess demura and anything less than the minute of the low-cholesterol diet, mr. Hess demura and anything less than the mr. Hess demura and the mr. Hess demura and the mr. Hess demura anything less than the mr. Hess demura and the mr. Hess demura any the mr. Hess demura anything less than the mr. Hess demura that is a sacrince, form of punishment. The difference between the low-calorie diet, low carbohydrate or otherwise, and the low-fat, lowcholesterol dict is that one can learn to ment is "to depleto in quantity, ss food live with fat- and cholesterol-restricted or dealers." or drink," another "to control or to establish habits of self-control." No less is this weight reduction, hy whatever method true of the control of the c true of the low-fat, low-cholesterol diet achieved, are difficult to sustain. R.S.G.

A Fluid-Filled IUD

a a relatively small number of clinical

CLINICAL QUOTE. "Prelinfinary results these results, which have been achieved without the use of drugs or chemicals of itials indicate that the new device is quite any kind, the clinical trials are being connuccessful in reducing undestrable side tinued and expanded." (Dr. Jack M. effects. The number of expulsions and removals for bleeding have been encourage of California School of Medicine, Saa of California School of Medicine, Saa ingly low; no pregnancles have resulted with the device in place; and patient reaclion has been enthusiastic. On the basis of california School of International School of I



he gets his horse back from the blacksmith.

Sickle Cell Confusion

Editor, MEDICAL TRIBUNE

Your editorial of June 20, 1973, on "Screening for Hemoglobinopathies" correctly points out that such screening should be accomplished without making the bearers of sickle cell and similar traits psychological inisfits and that education and effective counseling can avert this situation if proper techniques are used.

Dr. Hampton's study is of interest, but her implication that mass screening programs should be deferred is untenable, The health professions in most communitles have been so tardy in carrying out education, screening, and counseling that they were beoten to the punch by the Black Panthers, who are hardly notable health professionals.

Since the cat is now out of the bag, health professions can no longer plny ostrich. What is needed is an appropriate response to educate the public about the hemogloblaopathies and to sercen and counsel them in an appropriate setting so that misunderstandings will be minimized.

The Metropolitan Seattle Sickle Coll Program is attempting to do just that, and It is questionoble whether the 47 familles studied by Dr. Hampton were counseled by counselors from the program. Prior to the institution of the Metropolitan Slekle Cell Program last year, however, the problem of confusing sickle cell trait with sickle cell anemia in this community was common. This related to the fact that people who were tested were not counseled or were poorly counseled by the other screening groups in the community.

Centrol District Health Officer Seattle, Wash.

Evaluate the Drum

TRIAUNE, Dr. Bernard Berman's statements on the aignificance of allergle rhinitis as a cause for hearing loss la childrea are valid indeed. Secretory othis media is a very common and damaging cause for hearing loss in children and is frequeatly secondary to an allergie rhinitis, as well as being an aftermath of eustachian tubal blockage secondary to hypertrophic adenoida so common with adenoiditis and

f wish to differ somewhat with the statetests." I object to the use of the word peutically to test the hearing repeatedly, ization, I would prefer to leave the impression that all children should have repeated hearing

tests for screening purposes. When the hearing is impaired, this calls for an otolaryngological evaluation to determine the

It is more important to evaluate the ear drum and the status of the middle enr, preferably visualizing the cor with the high magnification of the Zeiss operating microscope as an office procedure, as this will reveal more accurately what is really going on with the car and serves us a more meaningful follow-up procedure than to test the hearing repeatedly. One knows that the hearing may remain intpaired ns long as thero is a serous offile

media in nny stage.
Though poriodic testing of hearing may be worth while to document progress in trentment, it is more important to test the hearing after the ear drum and middle car have returned to o normal appearance, primarily to document that the hearing is or is not back to normal.

JAMES T. SPENCER, M.D. Charleston, W. Va.

Screening Yes, But ...

Editor, MEGICAL TRIBUNE

The suggestion by Dr. Alfred Yankauer, reported in the June 6 MEOICAL TRIBUNE, that routine health supervision examinations of children by physicians should be eliminated in favor of periodic screening reviews has aeveral implications which are not listed in your report.

Screening tests and the capability of nurse associates are both showing increasing sophistication; both are used In-MAX C. BAOER, M.D., M.P.H. creasingly by pediatricians; however, emotional problems, allergles, and developmental and learning disorders, among the most prevalent problems of children in this country, are poorly identified by elther of these techniques. This has been well pointed out by Dr. Billie Crook.

The need for minute supervision of dies In the June 6 issue of MEDICAL and routine control of infectious disease in early infancy has been greatly reduced; however, as more and more congenital and developmental disorders are amenable to treatment, the responsibility of pediatricians for careful, frequent, and detailed examination of the Infant during his early months has not decreased.

There is a clear need to contain costs of medical care for children and use manpower efficiently; as has been pointed out by Drs. Michael Klein and Evan Charney, a most efficient way of doing ment that "every child with chronic aller- this is by providing access to continuous gie rhinitis should have repeated hearing and comprehensive health supervision which permits early diagnosis and treat-"repeated," as it helps very little thera- ment and decreases preventable hospital-

> DAVID SPARLING, M.D. Tacoma Wash.



Dr. Edwards replied, "I don't know that I would use the word 'houest.' . . . I think we have to manitor their use of nicdical technology, be it surgery or the utilizatisn of sther kinds of technology, and bs sure It is haing used both properly . . . and under the right circumstances."

Secretary of Health, Education, and Welfare Caspar W. Weinberger reported that the new astional health insurance propossi, which he hopes to show President Nixon next month, is the result of a "searching re-examination" of the 1972

"It's far from final yet," he said, ohserving that two options currently receiv-Ing close attantism are (1) a combination of amployer-mandate coverage and federsily funded catastrophic protection and (2) a national plan along the lines of the Federal Employees Health Benefits

"Whatever system survives," Mr. Weinherger said, "any pian will inclode certain concepts. We will propose a partnership concept involving private insurance companies and public agencies, with the poblic interest and the Government's respondbility to the public, we hape, protected along the way, every step.

"We will assure that all Americans have access to basic comprehensive health insurance and that lack of sufficient income will not he a harrier to ohtaluing such

Would Reduca Cost Infletion

The plan will also include features "that will halt or reduce medical cost inflation and discourage overusage of health care personnel and Iaclities," he said, adding that "all intentions would be in vain if we have to sit hy and watch the value of benefits provided quickly eroded by more

Noting the "sobering" fact that Medicare patients are now paying just about as much out-of-pocket costs for their health cere as ibey were paying before the program was introduced, Mr. Weinberger went on:

"Wa believe that health care financing ., . should be mhia to he used as a lever to improve the distribution and supply of health care resources.

"We beliave that reimhursemani mechanisms must be structured so as to encourage the introduction of new concepts, such as health maintenanca organizations, physician extenders, and paraprofessional

"We helleve that reimbursement proccdures should create new incentives for more efficiency and hetter quality—con-centrate, in other words, on health maintenanca rather than ou just treatment."

In response to questions, Mr. Weinherger sald the PSRO mechanism would be cosity polymer sysused to help prevent such ahuses as "gang tems. The advantages visits" as well as other tactics that have permitted "a very few" physicians to make very large incomes entirely from Medicare and Medicaid patients.

Reimhursement Mechanism Scored

"We have for too long, and in too care providers for the exact amount of their charges, without anything near n critical examination of the necessity, the validity, or the propriety of some of those charges," ha said.

Mr. Weinberger sald past Government policies were to hlame for encouragingor, at least, not restraining—questionable practices, but a major effort is now under way to "remove any Government atimulus there might be to more health care infla-

Picking up this theme leter, Dr. Edwards said the most important issue is tha traceptive sterilization. need to develop e "national health. Coauthors of the report were Robert H. strategy" that will hring the "vast re- Davis, Ph.D., and Drs. George A. Kyrlazis sources" of the public and private sector and Howard Belin. to bear on the problems of rising costs,

quality of care.

In aliarp centrast with the conclilatory tsne of his recent address to the Amarican Medical Association meeting, Dr. Edwards enumarsted a number of physicianrelated problems that the national lisnish strategy inight solve-and arms that it esuld not.

One problem that will be addressed is the "so-eslied doctor shortage"-which is really a problem of distribution. The reni problem, Dr. Edwards said, is that "there are not enough doctsrs providing primsry care, while the number of specialistsgeneral surgesna and the like-appears to be greater than necessary and even, for that matter, increasing.

"In addition, we are not making effective-I amphasize 'effective'-use of ollicd health care professionals," he said.

Some years ago the threst of a dsctor shortnge resulted in increased Federal sid for medical education. Medical school eorollment is up, and by the latter half of this decade hetween 9,000 and 10,000 new physicians will be graduating each yenr.

This incressa will not, in and of itself, correct the shortage of primary cara physicians or the overaupply of specialists, Dr. Edwards said, noting that we may end up with a doctor surplus.

"If that were to happen," he said, "you might assuma that physicisas' facs would fall under the influence of normal aupplyand-demond factors.

'I think the reverse is likely to happen. I think it already has happened. An excess of physicisms, like an excess of hospital heds, tends to increase demand ami certainly not lower it."

"We could he looking lowerd aven greoter infiation to the cost of health caro as surplus doctors try to geoerate a certain amount of damand for their services,"

Dr. Edwards, a former surgeon, citcd some "ostounding" statistical comparisons hetween the United States and England.

"The number of full-time surgeons in the United States per 1,000 population is about 37.6 versus 20.8 in England," lis



Dr. Charles C. Edwards, Assistant Secretary for Health,

pspulation in the United States in 1969 was 73.2. In England it was 46.4.

"The number of tonsilicatomics per 1,000 population in the United States was 6.3 compsred with 3.3 in the U.K."

Dr. Edwards sald that "if wa launch a nntlonal health insurance system and fail to address this kind of utilization issue, I think we would be failing our responsihility very badly.

One of the problems that the Federal Government cannot hondle hy itself, Dr. Edwards said, is the misuse of certain drugs, particularly the antibinties.

"Recent studies indients that as many as 60 per cent of hospitalized patients on antiblotic therapy had no evidence of infection," he sold, "Other studies auggest that about 30 per cent of the patients who see a doctor heenuse of the common cold receiva o prescription for one of the commooly used antihiotics."

"The problem hers is not simply that these drugs will do the pallant no real good," he went on. "They can do scrious harm by promoting the growth of resistant strains of bacteria ond an increased number of superinfections against which camventional antiblotic theropy proves hueffee-

Dr. Edwards sahl the FDA-of which he sald. "This number of operations per 1,000 is a former commissioner—"provides phy-

sicians with necurate and complete into mation on drug usage, and I think the improving in this regard.

"But it is plain that many physician nre not making proper use of this information, and if they were, we wouldn't ke producing and certifying enough and biotics each year to supply 50 doses a year for every man, woman, and child in the

Askad Abaut PSRO

Asked how he felt about A.M.A. or position to PSRO, Dr. Edwards replied:

"Well, I am ust so nsive as is think the American Medical Association & gning to full in inck step ond go down fe rnad with as on PSRO without some mile buttles. They obviausly ares't."

"I think, though, there are sufficied numbers of cullglitened physicians in the United States that ore hegisnion to recognizo the fact that the medical profession has been practicing over these many years will little or no quality canire," he said.

think timt we are slowly bruging these people into the real world, which recognizes that we all-including these of us in Government-have o hell of a lot of people looking over our shoulder and previlling a certain amount of quality conMedical Tribune

HYPERTENSION BULLETIN

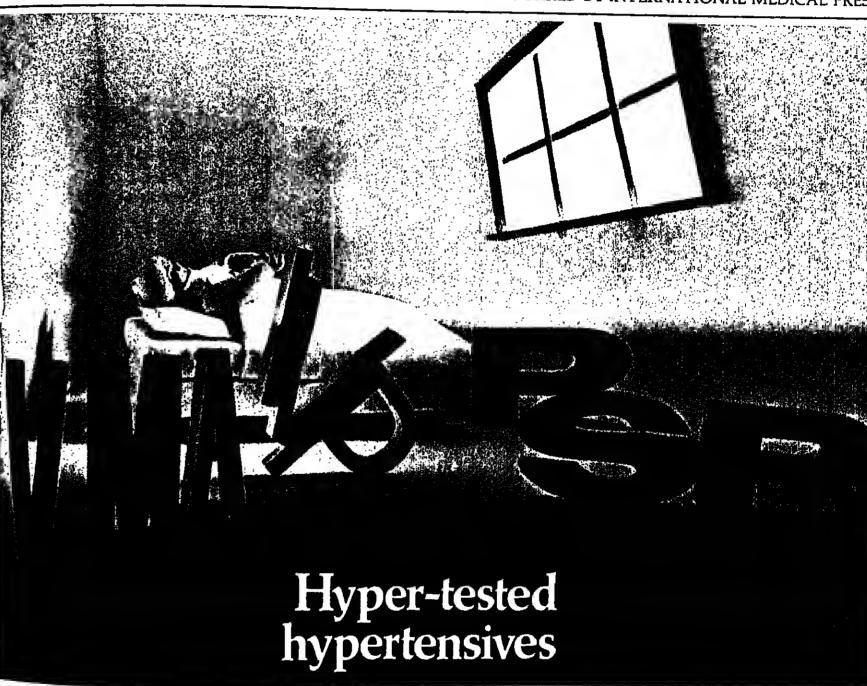
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AUGUST 8, 1973

PREPARED BY INTERNATIONAL MEDICAL PRESS



THE COMMON PRACTICE of doing the big soup. I'm talking about something as sim-Plains, N.Y. cardiologist to whom Manhattan nephrologists often send patients when they can't get blood pressures down to satisfactory levels.

"For the past 15 years, many physicians have been looking mainly for the esoteric, the unusual. They hospitalize the patient, searching for the three to five per cent who have fascinating complications. That may be much more interesting scientifically, but it's not real therapy.

"The real therapy begins with a blood pressure cuff and pills, not with elaborate testing, not with IVPs, VMAs, PSPs and all the rest of the diagnostic alphabet

I work-up on patients with mild to ple as a diuretic three times a week to moderately severe hypertension is all start, or a diuretic combined with a tranwrong, says Dr. Marvin Moser, a White quilizer, rauwolfia, or a barbiturate. Later on, the use of higher dosages and other drugs may be necessary. Not very glamorous. Won't get you published. But it will help you help your patients and may make a dent in the enormous morbidity due to hypertensive disease."

From 1958 to 1971 Dr. Moser, who is the author with Dr. Arthur Goldman of Hypertensive Vascular Disease, was physician-in-charge of the hypertension service at Montefiore Hospital and Medical Center in New York City and he still serves the hospital as an associate attending in medicine. He is also chief of cardiology, White Plains Hospital, consultant

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3 Nonsystemic Contraceptives Show Promise

Continued from page 1 moved intact, and no adverse tissue reaction, inflammation, or histologic changes

Citing ciloical trials of such plugging conducted in India, Dr. Erb noted that antifertitity efficacy has been schleved for ss long as two years even though lovestigators there used a highly ddiuted, low-viscosity allicone polymer and simply filled the uterine cavity with this material.

A non-air-entraioing mixar and dispenser devised by the Philadelphia team, he added, permits the

include prevention of intraparitoneai apiliage, good conformation to the oviduct iumen, and higher tensile strength.

Dr. Erb sald the special obturator in-

jection tip has been another factor in the success of the Philadelphia experiments. The tip's structure facilitates dalivery of the polymer into the falloplan tube without significant backflow into the uterine cavity. Also, the tlp detaches from the insertion device and remains in the uterus, bonded to the cured oviduci plug.

For use in women, the tips would be fitted with loops or other means of attachment to allow for transcervical removal and thus permit reversibility of the con-

A new intrautering device, consisting of

a aoft pouch that is inflated with aterile rane in minute amounts induces decidus salina after insertion, has been developed hy Dr. Jack M. Puto-

ran and Sotiria Kitrilakia, of tha Univeraity of California School of Medicine. San Francisco.

The pouch has no sbarp edges or points to irritate the uterus, Dr. Futoran pointed out, And the postinsertion inflatiou meaoa that the de-

vice is, in effect, custom-fitted, he asid. A totol of 207 women, more than half of them nulliparous, have been fitted with the device for a total of shout 600 months of exposure. No pregnancy has occurred with the device in piece.

and five others removed bec ing and/or pain during the trials, which have provided an average follow-up tima of three months. Most problems with an IUD become evideot within the first three months, Dr. Futoren commented.

The investigators emphasized that their results must be considered preliminary because of the relatively small number of potients. They believe, however, that the incidence of expulsions and removals has been "encouragingly low," especially in a study sampla that includes many nulliperous women, and they say that patient reection bas been "cnthusiastic." A second adaptation of the intrauterine

device-one that delivers very small doses of progasterone-was described by Dr. Antonio Scommegna, of the University of Chicago Pritzker School of Medicine. This local administration of progestechanges in the endometrial receptor that niako it imsultable for implaatatlee, bil the hormone does not have systemic &

fects, Dr. Scommegna said.

The vehicle used in the elinical trial has been a small, T-shaped device, the socalled Tatum T. It has a low expulsion rate and seldom causes bleeding or par but is associated with a relatively high pregnoncy rots.

Dr. Scommegna called the results so far achieved with the progesterose-releasing device "quite encouraging." No pregnant has occurred while a device releasing adquate amounts of progesterone was preent in the uterine caylty.

The rates of expulsion and cervical dis piecement, as wall as the incidence of removel for medical or personal reasons were higher than those reported for the Five of the devices have heen expelled regular T device. But Dr. Scommegal noted that re



crease. The experimental device had a useful life of saly six months because of gradual hormone release. Further factors in fluencing ramoval were the endo-

removals and inse

metriol biopsies and other procedures required by the study end the prevalence of pelvic infiammetory diseasa in the study population.

Associated with bim in the study were Drs. Theresita Avila, Manuel Luna, Rank ma Rao, and W. Paul Dmowski and B. Kulkarni, Ph.D.

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in cardiology to the State Department of Health, and Assistant Professor of Clinical Medicine, Albert Einstein College of

Dr. Moser consistently treats patients whose repeated blood pressure readings are as low as 140/90, especially if they are under 40 and if there are the risk factors of familial history of early coronary or hypertensive disease. He even treats patients in the 40-60 age group whose pressures are in the 145-150/90 range.

"Let's take a man of 50, with a blood pressure of 150/95 and an uncle who died at 55 of a stroke. I would probably not treat him at once, but would ask him to come back in three to six months. If the

The real therapy begins with a blood pressure cuff and pills, not with elaborate testing.

pressure were then above 150/90, I would start him on 50 mg. of hydrochlorothiazide three times a week, possibly combined with a rauwolfia preparation, unless he had a history of depression or appeared to be a highly anxious person.

"Now suppose him to be obese. I would get him to lose weight, but I would know that this is only likely to control blood pressure if it is mildly elevated. A lot of physicians, I think, rely too much on that notion in severe cases and neglect treatment. The fact remains, however, that obesity is another risk in heart disease. If his cholesterol were high, I'd try to correct that, and if he smoked two packs of cigarettes a day, I would go after that, too. These are all peripheral to hypertension, but contributors to coronary disease."

Dr. Moser does not see a patient frequently unless his hypertension is both

tensin in 1939, took his own blood

pressure for years, but now he has

given way and has another doctor

sonably good heredity".

Dr. Irvine H. Page, director emeri- great distress of friends," walks

tus of research at the Cleveland and walks. He began to "monkey

Clinic, and the man who led one of around" with low fat and low cho-

two research teams that separately lesterol intake in the 1940s, but did

reported the discovery of angio- not give up alcohol. Smoking he did

check him once a year. Dr. Page, at blood pressure (see his article. Hy-

72, says his pressure holds at about pertension Bulletin, June), but sees

135/85, partly because of a "reather issue as irrelevant in his own

He jogs, plays tennis and, "to the stress me terribly".

stop, after 50 years.

He has never been convinced

that stress alone can cause high

case, since "things don't really

a particularly tricky problem he turns to his American Indian kachina associate for guidance and inspiration.

When Dr. Moser needs to consult about

severe and refractory. And further: "No scare tactics, no telling him his heart may give out or his kidneys may fail or a stroke may result. I think when someone finds out he has high blood pressure he is frightened enough Everyone knows someone or of someone who had a stroke.

As a member of a joint American Heart Association-American College of Cardiology Self-Assessment Study Group on Hypertension, Dr. Moser is sold on the idea of a "cookbook" approach to treatment of mild to moderately severe hyper-

"I know that some people object to the 'cookbook' concept. They think they are not individualizing treatment, but our experience pretty conclusively shows that about 60 per cent of all mild to moderately severe hypertensives will respond to thiazide and rauwolfia in medium to full doses -up to 100 mg. of each per day. That's a pretty high percentage. It means that if we screened the whole country and found eight million more such hypertensives, almost two thirds of them could be successfully treated by the so-called 'cookbook' prescription.

For such patients, Dr. Moser's plan of therapy is placid, and persistent. He is going to get that reading down, but he is not going to disrupt the patient's customary way of life in the process.

"I don't believe that all hypertensives, or even 20 per cent of them for that matter, should have elaborate work-ups. I don't think they should be in hospitals. I feel very strongly that the vast majority of hypertensives who are lying in hospitals for work-ups don't belong there."

This does not apply to patients with malignant hypertension, of course. They belong in the hospital for emergency treatment.

"That is the patient with a diastolic of 130-140 plus, with headaches, dizziness,



failing vision, nausea, vomiting, with albuminuria, red cells, casts, and so forth He may have an enlarged heart, left ventricular hypertrophy, and ischemic changes. He may have fibrinoid changes in the arterioles of the kidney, and papilledema, hemorrhages and exudates on examining the fundi.

House academicians

"These people obviously should be in the hospital, but not for a work-up. There's time for that later. Just get the pressure down. It cloesn't matter what caused the elevation.

"One of the things that used to happen often was that the patient wouldomein with this syndrome, and the very academically oriented house staff would immediately start an elaborate study to determine why he had malignant hypertension, instead of just knocking the pressure down and a week later doing studies to see if there really were some ascertainable cause, like pheochromocytoma

or renal artery disease." In his book, Hypertensive Vascular Disease, Dr. Moser firmly insists that immediate hospitalization is unnecessary, even for the patient with more severe hypertension.

"Let's say I have a patient of 45 whom I saw with 170/110, and his ECG showed some left ventricular hypertrophy, but his urine was negative. After a month on thiazides and rauwolfia, let's say his pressure is now 180/115. After adding hydralazine in gradually increasing dosessomething the patient can do-he comes back in three or four weeks with a pressure still at 180/115. So I push hydralazine up to 200 mg. per day, which is about where you want to end up. He is now on 100 mg. of thiazide, 100 mg. of rauwolfia or .25 mg of rescrpine, and 200 mg of hydralazine daily. He's not responding, so I add guanethidine, starting with 12.5 mg. a day. It's necessary to see him more often with this drug, so in a week I find his pressure is 190/120 and he shows a little albuminuria. On 50-75 mg./day guanethidine, plus the other drugs, blood pressure remains high.

"By now it's clear that this is a patient who has to be investigated for a possible renovascular lesion, a narrowing of one

or both renal arteries. In a man this age. the most common cause would be an arteriosclerotic plaque that you hope will be in the renal artery, just where it comes off the aorta, so that surgery can be effective. In a young woman, you might find a different kind of lesion-a dysplasia of the media or intima of the renal artery. These lesions are frequently not amenable to surgical repair."

But such situations are rare, and Dr. Moser does not work up patients for renovascular disease unless the disease is progressive, non-responding, or accelerating. However, he believes that every hypertensive under 30 should be worked up, because that is where the yield really is in the search for abnormalities.

The remainder, he treats at once, after giving a basic, baseline examination: An ECG indicates possible heart involvement as a target organ. A simple urine, if negative, rules out renal parenchymal disease. PSP tests and creatinine clearances are unnecessary.

"These tests are nice from an academic point of view, and I think interns and residents ought to learn about them, but from a practical standpoint we don't need them. A BUN and a urine will tell you as much as you really need to know to begin treatment of all but the malignant or severely progressive hypertensives. We have a serious public health problem with untreated hypertensives and we will not begin to solve it unless we simplify our approach!"

Even where there is kidney damage, as evidenced, say, by a BUN of 25 to 35 mg. per cent or a creatinine of 1.5 to 2.5 mg. per cent, there is no reason to withhold antihypertensives.

"I have seen a fair number of people both in private practice and at Montefiore who started out with evidence of kidney

A BUN and a urine will tell you as much as you really need to know to begin treatment of all but the severely progressive.

insufficiency—BUNs of 30 and 40 mg. per cent and creatinines of 2, 3 or even 4 mg. per cent-whose function has remained stable for five or more years following effective antihypertensive treatment.

Dr. Moser recalls only two patients in whom a creatinine of over 4 mg. per cent came down toward normal after treatment, and adds that there are some investigators who have reported more frequent improvement in kidney func-

He explains this phenomenon in terms of the effect of hypertension on target organs. High blood pressure, he believes, can be regarded as simply a mechanical burden on the heart as a pump and the blood vessels of the kidney and brain,

whatever the cause of the elevation. "If you can take away this mechanical insult, this added blood pressure, you have eliminated a major factor in the etiology of vessel disease in these major target organs."

The fallacy persists, he says, that as you lower blood pressure, you reduce blood flow to the kidneys, decrease glomerular filtration and cause further kidney damage.

"This is true — temporarily, especially with drugs like guanethidine, which act by dilating the veins, reducing venous re-

I don't believe that all hypertensives, or even 20 per cent of them, should be in hospitals.

turn to the heart, thus decreasing cardiac output. When cardiac output falls, so does the flow to the kidney. With such drugs you frequently see rising BUN levels, indicating less blood flow to the kidney as the pressure comes down.

"House officers are fond of making charts showing the patient's blood pressure coming down and the kidney function getting wocse.

"'What are you doing to this poor fellow?' they would ask us during rounds. The answer to that is, that if you drop the blood pressure of patients with renal insufficiency carefully, and if you persist in treating them, the BUNs will first rise and will then come back down to pretreatment levels and stay there. After a mouth to six weeks, as blood pressure comes under control, the BUN and creatine levels will

come back down." By far the greater danger in such patients is inadequate treatment, Dr. Moser says. He cites a man in his early 50s with diastolics of 140-150-160, heart failure, a creatinine of 6 mg. per cent, and retinal hemorrhages.

"You knew very well that by lowering his pressure you were not going to prolong his life indefinitely, because his kidney function was too far gone. Treatment proved to be more than just palliative, however. This man has been on therapy about a year and a half. His creatinine is still six to seven, his BUN is 90 to 100. He is obviously losing ground in renal function, but he has had 18 months of pretty good health. His fundi are free of hemorrhage; he's out of heart failure; and he's going about his business.

"I like to think that, if he had been treated five years ago, this never would have happened at all. The sad part of the story is that he had been seeing a doctor all along, but unfortunately he had been given totally inadequate therapy.

"This case is characteristic of something you see frequently: the patient whose doctor is aware that the hypertension ought to be treated and therefore uses a drug, or even two or three drugs, in inadequate dosage. The doctor goes to bed at night feeling very comfortable. He is treating his hypertensive patient, but he is not treating him to end-point."

reports abroad

HELSINKI—The results of a serum lipid and lipoprotein study at the University of Helsinki by Drs. Isko Nikkilä and Antti Aro suggest a familial trait of hyperlipidemia in one-third of families in which one member had suffered premature coronary heart disease.

Of the 101 families examined, hyperlipoproteinemia was prominent in 33 and only nine of these had a single-type disease. Familial hypercholesterolemia (type-IIa) was found in six families. Abnormal lipoprotein phenotypes coexisted in 24 families, with half the members affected. Phenotype IIb was six times more common in the first-degree relatives of myocardial infarction survivors than in a control population.

JERUSALEM-Profound salt wastage found in seven children with very high plasma-renin activity and normal or high plasma-aldosterone levels may be explained, said Dr. A. Rösler, Hadassah University Hospital, by the non-responsiveness of the renal tubule to aldosterone. The patients responded to heavy dietary supplements of salt.



DUNDEE, SCOTLANO-Patients with chronic renal failure on maintenance hemodialysis "may be subject to a dangerous combination of symptomless duodenal ulceration associated with severe, prolonged hypersecretion of acid" that may be a consequence of the renal disease or its treatment by hemodialysis, report Drs. A. M. M. Shepherd, W. K. Stewart, and K. G. Wormsley, of Maryfield Hospital.

They found very high overnight and basal gastric acid secretion associated with duodenal ulcer in 53 per cent of 15 patients with endstage chronic renal failure. They suggest that all such patients on hemodialysis be monitored for spontaneous gastric hypersecretion, so that proper therapy can be initiated.

The CIBA COLLECTION to date includes the following volumes: Nervous System; Reproductive System (both male and female); Digestive System (three volumes on the upper and lower digestive tracts and liver, biliary tract, and pancreas); Endocrine System and Selected Metabolic Diseases; Heart; and, of course, the book on the kidneys.

"Our knowledge of kidneys has expanded so rapidly in the last ten to fifteen years, due largely to the electron microscope," said Dr. Netter, "that we felt obliged to present the kidneys pictorially in the newest volume. Our understanding of kidney function has been so amplified and there have been so many therapeutic advances, such as dialysis, that we had a particular incentive for this undertaking.

Emphasis on hypertension

"Because the relationship of the kidneys to hypertension is very fundamental—though we still don't know which came first, the hypertension or the kidney disease—we have delineated kidney function in relation to hypertension in many of the illustrations.

"But many other aspects of kidney disorder are also covered here, as they are in Volume 5 on Heart, in which the section on kidneys in hypertension demonstrates graphically the morphologic changes in essential hypertension, and renal lesions in malignant hypertension, which are often so extensive as to make renal failure one of the common causes of death in untreated cases."

Dr. Netter hopes some day to complete the CIBA COLLECTION by doing all the systems of the human organism, "if I live long enough and retain my faculties and ability to work".

How did he, a surgeon, happen to become a medical artist, rather than a researcher or clinician? "Well," said Dr. Netter, "if someone had told me when I was a young boy that I would study art for

THEORY ATTEROR

ten years and become a successful commercial artist, and that then I would give up the whole thing and spend another fifteen years going through college, medical school, internship and residency, subsequently to combine all this training with art, I would have said, 'You are crazyl' But that is exactly what I did, though I never planned to be a medical artist; in fact, I believed I was through with art when I started to study medicine.

"When I was just a kid I loved to draw. While still in high school, I would spend afternoons and evenings at the National Academy of Design. When school work began to suffer, my mother asked where I went after school and I told her I was going to art classes. 'Well,' she said, 'art is very nice, but not a good way to make a living.'

"She told me about the evils of the artist's life—drink, carousing, nude models. It didn't sound too bad. Anyway, I promised I would do better in my school work, so she let me continue at art school. Eventually I became a commercial artist, and drew girls for calendars, did magazine illustrations, even type design and layout. This was during the booming 1920s, great days for the commercial artist, because photography wasn't used much, radio was in its infancy, there was no TV. The artist was the darling of the advertising world.

"But my family still felt that I should

do something more serious, so I went back to college to become a doctor. At medical school my notebooks were full of pictures, because I was trained visually, and that's the way I could learn. After seeing my drawings, some of my professors asked me to illustrate their books and articles, which I did, just to get on their right side at first; then, when funds ran low, I drew pictures to earn money.

Art to pay rent

"By the time I was ready to go into practice, the country was in the depths of the depression and there was no practice for a young surgeon. So, in what I considered a temporary expedient to pay rent until my practice could get off the ground, I drew more and more, and the demand for my illustrations grow faster than the demand for my practice. When I finally had to decide just how I would make my living, I decided to continue illustrating."

One of the most interesting, though arduous, projects ever undertaken by Dr. Netter was construction of a 7-foot-high "transparent woman" for display at the San Francisco Golden Gate Exposition.

"Creation of that woman—she was kind of vicious—almost killed me. It was a terrible job. We worked day and night on it for about eight months. Not only did I model the figure, which was the easiest part, because I had studied sculpture and had a couple of boys to help me, but then had to fit the mechanical and electrical devices inside the model, so that lighting effects and a voice telling the story of endocrine function could be anythered."

docrine function could be synchronized." Asked whether he has trained someone to carry on his work, Dr. Netter said that on occasion he has had people working under his guidance. "Frankly, though, I don't have the temperament to guide and teach. I prefer to do the work myself, and usually end up by doing it anyway, because most of my work is not merely painting, which is by far the lesser part. The important part is in studying to understand a subject thoroughly before starting to illustrate, so that I can record the essence, not merely the existence of, for example, a pathologic condition. Then, I may make 30 or 40 different sketches. Sometimes I'm able to present a subject clearly right off the bat, and don't need that many sketches.

"My wife often asks me when certain pictures were done, and I say, 'Oh, while lying in bed'; or, 'On the golf course.'
These are the times when I actually do my



The important part is in studying to understand the subject, to record the essence of it, not merely the pathologic condition.

thinking and planning, the hardest part of my work. Illustrations must transmit an idea, not merely be realistic, like a photo or possibly emotional, as a painting may be. Drawings may become very graphic, schematic sometimes, particularly when depicting certain functions, such as those of the kidney, which is largely a chemical organ, in contrast with the heart which is a mechanical organ, a pump. I try to illustrate in depth, to present subjects as they would appear to the inind, as a teaching device, though I don't like the word teaching, because sometimes we are just presenting thoughts and ideas, not teaching.

Pictures define the words

"Let me relate an incident to illustrate how my work on the gastrointestinal system led to an *in depth* presentation. I

started in my usual manner by studying the literature, with which I was already pretty well acquainted. However, the more I read, the more confusing the subject seemed, because so many of the same words mean different things. But the writings of a Professor of Anatomy at the University of Manchester, England, had impressed me, and I felt I had to talk to him before I could proceed. So, I wrote to him, he invited me over, and I spent three days with him.

"Several months later, after I had completed my illustrations, this professor was in the U.S. and phoned me. I was delighted to hear from him, and invited him to my studio. For the first ten or fifteen minutes he just looked at my drawings and said nothing. I became apprehensive, thought I had made some terrible mistakes and that he was too embarrassed to tell me about them. But, I was wrong.

"When he finally looked up, he said: 'Though I know everything you have presented in these illustrations, in fact, I believe I described most of them to you, seeing them depicted graphically gives me a whole new concept of the subject.'"

Young students often seek Dr. Netter's advice about how to become a medical artist, and the first question many ask is: What sort of brushes, or paints, or paper, or canvas should I use?

"I say, Well, I can tell you all about these implements of the trade, but they aren't going to help you become a good medical artist unless you first learn that you are trying to transmit ideas, clarify thinking, not just paint technically accurate pictures."

Dr. Netter believes that anyone can draw, and that medical students should be encouraged to illustrate things as they learn, because graphic presentation is an aid to logical thinking.

"I think it is very unfortunate that many young people are told that they cannot draw. Teachers who often don't know very much about art themselves often tell a child he has no talent, so he becomes convinced he will never be able to draw. I don't think this is true, though some people will do better than others. It is almost instinctive to draw, and I believe all children love to make pictures, just as my little granddaughters do. Some of the things children draw before they are subjected to negative influences are extremely attractive."

Two ways to treat moderate hypertension and why...



why Ser-Ap-Es Esimil

hydralazine hydrochloride 25 mg hydrochlorothiazide 15 mg

because only Ser-Ap-Es adds hydralazine to rauwolfia-thiazide



Ser-Ap-Es does more than control blood pressure in moderate hypertension-it's a therapeutic approach that considers the whole patient. And adding hydralazine to rauwolfia-thiazide

usually permits lower dosage of each component than if prescribed alone.

If there is slight renal impairment, hydralazine helps maintain or increase renal blood flow.

If the patient is stress reactive, the reserpine component should have a calming

If the patient is uncooperative, Ser-Ap-Es may be a help because it contains all the medication many patients need in a single

Ser-Ap-Es should be used with caution in patients with advanced renal damage and cerebrovascular accidents. It should be discontinued at the first sign of mental depression.

guanethidine monosulfate 10 mg hydrochlorothiazide 25 mg

because Esimil offers the control-with-convenience so many hypertensives need



Esimil, an equally valuable yet different approach to moderate hypertension, makes sense for many patients because it anticipates future problems while helping to solve present ones.

If the patient is free of organ damage, Esimil may help keep her that way because it provides guanethidine, perhaps the most effective antihypertensive available. And effective lowering of blood pressure takes pressure off target organs.

If the patient forgets things, Esimil may make it easier to remember with once-a-day dosage, feasible in most cases.

Postural hypotension may occur with the use of Esimil, particularly while the drug is being introduced. Like all antihypertensives, Esimil should be given with caution in the presence of severe coronary insufficiency or recent myocardial infarction.

early, effective control of hypertension can save lives

Esimil'

guanethidine monosulfate 10 mg hydrochlanthiazide 25 mg



Based on a review of this drug by the Neilona Academy of Sciencas-Netlonal Research Council end/or other information, FOA has clessitied the indicatione as follows: Effective: Hypertension. (See box warning.)

this fixed combination drug is not indicated to Inits fixed combination drug is not indicated for initial therapy of hypertension. Hyperiension requires therapy litrated to the individuel patient. If the fixed combination represents the dosage so datermined, its use may be more convenient in patient management. The treatment of hypertension is not static, but must be reevaluated as conditions in each patient wan ant.

CONTRAINCICATIONS

Known hypersansilivity, mental depression (espacisily with suicidal londenclas), active peptic ulcar, licacative collils, and patienta receiving electroconvolsivo therapy.

Hypersansilivity to hydralazina; cotonery artery diasese; and initial velvular rheumatic heer! Hydrochlarothlozida

Anuris; hypersensilivily to this or other euitona-mids-darived drugs. The routins use of diuratics in an otherwise healthy pregnant woman with or without mild adama is contraindicated and possibly hazardous. WARNINDS

Rosarpino

Extreme caulion should be exalcised in liesting patients with a history of mantal depression. Olsconlinus the drug at tirst sign of despondency, early morning insomnia, loss of appetitis, impotence, or sall-deprecation. Orug-induc ad depression may peralat for several months attar drug withdraws and may be asvare enough to result in suicide.

MAO tribibliors should be avoided or used with axirems caution.

Hydralezine

Hydralezine
Chronic administration of doaes over 400 mg par day may produce in a few patients an arthritis-like syndrome leading to a clinical picture simulating ecute systemic lupus eightnamatosus; this syndrome may elso occur at lower dosea. Symptoms and signs usually lagress when the drug is discontinued, but long-fern treetment with ataroids may be necessary and residue have bean datected many years talar. Complete blood counts, t. E. call praparations, and antinuclear antibody titar detarminations are indicated before and particularly during prolonged therapy with hydralazina, even though the patient develops arthralgie, tover, chost pain, continued maialse, or other unexplained signs or symptoms. Use MAO inhibitore with caution in pationis recolving hydralazina.

Hydrochloro hiszide
Use with caution in severe ronal disease. In patiants with renel disease, thiezides may precipiate azolomie. Cumulative offects of the drug may develop in patients with impaired tenal function. Thiazides should be used with caution in patients with impaired hapalic tunction or prograssive liver disease, since minor allorations of fuld and oloctrolyle imbalence may pracipitate hopatic coma. Thiazides may be additive or potentialive of the action of other entitypetiansive drugs. Potentialion occurs with genglionic or peripheral adronergic blocking drugs.
Sensitivity reactions may occur in patients with a history of stargy or bronchial aeihms.
The possibility of exacerballon or activation of systemic lupue crythemetosus has been reported. Usage in Pregnancy chloreihlszide

Recerptia

The sataty of reset pina tot use during pregnancy or lactation hee not bean established; therefore, the drug should be used in pragnent patients or in women of childbeating potential only when, in the judgmanl of the physician, it is easen lial to the waitere of the patient, increased respiratory tract secretions, nesal congasilon, cyanosis, and anoraxis may occur in neonales and breast-fed infents of reserpine-treated mothers aince this drug crosses the placental barrier and eppears in breast milk.

Hydratezine

Hydratezine
The drug should be used in pregnancy only when, in the judgment of the physician, it is deemed essential to the welfere of the pettent.
Hydrochlorothiczida
Usage of thiszides in women of childbearing age requires that the potential benefits of the drug be weighed egelnat its possible hazards to the fetus. Thase hazards include telefor neonatel jaundica, thrombocytopania, and possibly other edverse reactions which have occurred in the adult.
Murafing Mothers
Thiszides cross the piscapial barrier and energy

Thiazides cross the placantal barrier and appear in cord blood and breast milk.

PRECAUTIONS

Since reserpina increases gaetrointealinet motility and secretion, il should be used cautiquely in petientawih a history of paptic picer, picerativa colitis, or gallalones (billary colic may be precipitated).

Caulion should be axerclaed when treating hyper-tensive patients with renal inaufficiency eince they adjust poorly to lowered blood pressure

drelezine

Accordial silmulation produced by hydratazine
Accordial silmulation produced by hydratazine
Accordial ischamia. The drug has been impliated in the production of myocardial inferction,
must, herefore, be used with caulion in pasenta with suspected coronary energy disease.

The "hypordynamic" circulation caused by hy-dralazino may accantuste specific cardiovascular inadoquacies. An oxample is that hydralazina may incraesa pulmonary ariary pressure in pallents with miliral valvular disease. The drug may reduce tha pressor responses to epinephins. Postural hypofenalon may result from hydralazine but is less common than with ganglionic blocking agents. Use with caulion in patients with carebral vascular accidents.

vascular eccidents.
In hypertansive pallents with normal kidneys who are trealed with hydralazins, there is evidence of increased ranal blood flow and a meintenance of glomarular littletion rate. In some instances improved renal function has been noted whara control values were below normal prior to hydralazine administration. However, as with an antihypertansive agent, hydralazine should be used with ceution in pallents with advanced renal damage.

renal damage.

Peripheral nauritis, avidenced by parasihasis, numbness, and tingling, has been observed. Publiahed ovidence suggests an entipy idoxine effect and the addition of pyridoxina to the regiman if symptoms develop.

Blood dyscrasias, consisting of raduction in hemoglobin and rad call count, laukopenta, agranulocytosis, and purpura, have been reported. If such abnormalities develop, discontinua therepy. Periodic blood counts are advised during prolonged that apy.

Hydrechlorothlazida
Parlodic dalarmination of serum electrolytes to detect posable electrolyte imbalance ahould be performed at appropriate intervals. All patients i ecaiving thiazida I hai appy should be observed for clinical signs of tiuld or electrolyte imbalance; namety, hydonalremia, hypochioramic sikalosis, and hydokalemia. Serum and urine alectrolyte determinations are particularly important when the patient is vorniting axcassively or receiving perentical fluids. Medicalion such se digitalis may also influence serum electrolytea. Warning signs are dryness of mouth, thirst, waakness, lathergy, drowsfness, restlassness, muscle pains or cramps, muscular faligua, hydolension, oliguria, tachycardia, and ge sirointestinal disturbance such as nausea or vorniting.
Hydokelemia may develop with thiazidos as with any other potent diurelic, aspecially during brisk diuresis, when severe circhosis is present, or during concomitant administration of staroids or ACTH.

of ACTH.
Interlarance with adaquata oral intake of elactrolytes will also contribute to hypokalamis. Oigitalis
therapy may exaggarate matebolic affacts of hypokalamia especially with refarence to myocardial
activity.

sctivity.

Any chiolida delicit is generally mild and usually doas not require specific freetment except under axtraordinary circumstences (se in liver disease or renal disease). Offutional hyponatremia may occur in edemalous petiants in hot waether; appropriete therapy is water restriction relhar inan adminiatration of sail, except in raie instances when the hyponatremia is life-threatening. In actual sail depletion, appropriate replacement is the therapy of choice.

Transient clevations in plasmo calcium may occur in patients receiving inlazides. This may be more produced or sustained in paliants with hyperparathyroidists. Pethological changes in the parathyroid gland have been reported in a few paliants on prolonged inlazide incompy. Hyperuricemia moy occur or irank gout may be procipitated in coriain pations receiving this library.

procipitated in coriain pations recoving this the horapy. Insulin requirements in disbelle petions may bu increased, decreesed, or unchanged. Lotont dis-betes may become monitost during this tide administration.

The anlihyperteneive offects of the drug may be enhanced in the post-sympathoctomy pallent. This drag may decrease stieriel is sponsiveness to no epinsphrine. This diminuition is not sufficient to peciuds effectiveness of the pressor agent for the pressor.

Thiazidas may decrease stierial iospensiveness to norepinsphrine. This diminulien is not sutil-cient to precious effectiveness of the pressor agent for therepaulic use.

Il progressive renal impairment becomes evident, as indicated by a rising non-protein nitrogen or blood urea nitrogen, a caieful reapproisel of therepy is necessary with considers tion given to withholding or discontinuing diuretic therapy.

Thiazidas may decrease serum Pgi lavale without aigns of thyroid disturbance.

Water retention with edama in patients with hyper-tensive vascular disease may occur reraily, but the condition generally clears with cassetion of ther-apy or with the article with cassetion of ther-

lydroch lorothiezide Osatromiestos.

Osatromiestinai: Anorexia, gestric irritation, nausea, vomiling, ctampling, diarrhea, consilpation, jaundice (intrahepsile cholestalic), pancrealitis Central Netvous System: Otziness, verligo, pelatitesias, haadache, xanthonsia

Two ways to

treat moderate

hypertension

allivity reactions

silivity reactions

Hemelologic: Leukopenia, thrombocylopenia,
agranulocylosis, aplastic memia

Cardiovascular: Orthostalic hypotension may occur
and may be potentiated by alcohol, barbiturates,
or populates.

or naicolics
Othar: Hyperglyceinia, glycosuria, hyperuricentia, muscle spasm, weakness, resilessnass

As determined by individual litration (see box werning). Usuel dosage is 1 or 2 tablata t.l.d.

werning). Usual dosage is 1 or 2 tablata t.l.d. Since the antihypertonsive ellects of rescription are not immediately apparent, maximal roduction in blood pressure from a givon dosago may not occur for 2 weeks. For maintinnance, adjust alosage to lowest patient requirement. When necessary, more potent antihypertensive, may be added gradunity in desinges refured by all least 50 parcont. Watch effects combility.

COSAGE AND ADMINISTRATION

HOW BUPPLIED

Esimil

NOICATIONS

CONTRAINCICATIONS

guanethidins monosultota 10 mg hydrochiarothiazida 28 mg

Hyperfanelon. (See box warning.)

WARNING
This fixed combination dring is not indicated for initial therapy of hypertension. Hypertension requires therapy litrated to the individual policial. If the fixed combination represents the dosage so data mined, its use may be more convenient in pallent management. The frealment of hypertension is not static, but must be revaluated as conditions in each pallent warrant.

Hydrochlorothlaside
Anuila; hypersensilivily to this or other sulfonamtde-derived drugs. The routine use of direction in an other wise healthy programs women with or without mild adenm is confinalindicated and possibly hazardous.

hiazide drugs msy increaso the responsiveness tubocurarine.

From the state of AOVERSE REACTIONS

AOVERSE REACTIONS
Reserpine
Rauwoitis praparations have caused gasirointestinal reactions including hypersecretion, nausea, vorniting, enorexia, and dieirhea; cerdiovescular reactione including engine-like symptoms, arrhyth miss (particularly whan used concurrently with digitaties or quinidine), end bradycardia; centrel norvous eystem reactions including drowsiness, deprasation, nervousness, paredoxical anxiety, nightmeras, rare parkinsonian syndrome end oliner extrapyremidal tract symptoms, and CNS eansitization manifested by dull sensorium, dealness, glaucoma, uveilits, and optic atrophy. Nasal congeation is a frequent occurrence. Prutitus, rash, dryness of mouth, dizzinesa, headache, dyspnea, syncope, eptetaxis, purpure and other hemastologic reactions, impolence or decreased libido, dysuria, muscular eches, conjunctivel injection, weight gain, breast engorgement, pseudolectation, and gynecomestie have been reported. These reactione are usually reversible and disappear after the drug is discontinued.
Water teternitor with edama in patients with hyper-

Hydralezine

PRECAUTIONS Guens Intelna Guenshidina

The effecte of guanathidine are cumulative over long periods; initial dose should be small and increased graduatly in small increments. Use very cautiously in hyperiensive pallants with renal disease with nitrogen retention; coronary disease with insufficiency or recent myocerdial interaction; cerebial vascular disease, especially with encephalopathy; and rising 8 UN levels, since decreased blood preasure may turther compromise renal

Nursing Molhers

turicition.

Since guenethidine may interiere with the compensatory role of the edgenergic system in producing circulatory adjustment in patiants with congestive heart leilure, give Esimil with extreme caulion to patients with severe cardiac

Guanethidhe
The safety of guanolhidhe for use in pragnancy
has not bean esteblished; therefore, this drug
should be used in pregnant petiants only whan,
in the judgment of the physician, its use is
deemed estential to the welfare of the patient.

mazion.

Il digitalis is used with guanethidine, il musi bo ramembered that both drugs slow the heart rate.

Use caullously in paliants with a history of paptic

Amphelomine-like compounds, stimulants (eg. Amphelomine-like compounds, stimulants (eg. ephedrine, melhylphemidulet, and Irroycic anti-destpramina) may lotertere with the uplake of guanethidina by nerve endings and thereby reduce its hypotansive effect. Olscontinua MAO inhibitors for at least one week balore startling guanethidine.

ostore stating granelhidine.

Hydrochlorothlazide
Periodic determination of serum electrolytes to detect possible ofectrolyte imbatance should be receiving that appropriate intervals. All patients of electrolyte industrial state of electrolyte industrial signs of fluid of electrolyte imbatance alkalosis, intervals, hydrochlorente alkalosis, and modernation describing in patient in the southern and urine electrolyte when patient is southern and in the electrolyte when patient is according to the patient in the southern and describing in a subject of the southern and describing in the subject of the southern and describe southern and granta, tachyear libration of variabling that disturbance such as Whanaver advel se leactions ara moderale or se-vele, ihlezide dosage should be reduced or linerapy

tames or confling.

Typicalomia may develop with interior such as with my diversity during belsk timests, when it could not be in the conflict of the conflict in territ. Interference with adequate and intake of sec-tiolytes will also contitute to hypokalomia. Dipliant, therapy in yestargeram metabolic effects of hypokalomia carectally with reference to rays addit activity.

royce ardial artivity.

Any chiefile the lift is generally intid and usually date that require specific freatment except under extraordinary car unistances has in over disease or main disease. Onlinearal hyponational and any occur in edemations callends in hot weather, appropriate therapy is water restriction rather than of sail, except in rate instances when the hyponational efficiency in rate instances when the hyponational effective all flestive alongs in including the deposition, appropriate replacement is the therapy of choice.

Transfert elevations in plasma calcium may occur in patients recovering histories with hyporality of the parally of the parally or in the parally of the parally of the parally or in the parally of the parally or in the parally o

Hyperunicemia may occur or frank gout may be precipilated in cortain patients receiving thiszid therapy.

Insulin requirementa in diabetic pelionis may be increased, decreased, or unchanged. Latent diabetic may become manifest during thiszide aniministration. Thinzied drigs may increase the responsiveness to tubermailine. The milihypertensive effects of the drug may be enhanced in the post-sympathectory

arun may be enhanced in the post-sympathectory patient.

This diministration is not sufficient to precious firm a firm without it sufficient to precious officients officients of the prospective read the prospective read in the prospective read in

Frequent reactions due to syngathelic blockade: Dizzotess, weakness, lassdide, and syn one resulting from either postural or exemploral bypotension. evenional hypotension.

Frequent reactions due to unoquosed gara-sympathetic activity. Brady, aida, increase in luxed universionly, and distribut Diarrhea may be severe at times, and use esstate discon-linguals e of the medication.

Ounethidina
Othosialic hypotension can occur frequently and patients should be properly inshurced about this polonini hazard. Fainting spells may occur under the patient is forewarned to all or ito dewn with the onset of dezimass or weakness. Postural hypotension is most merkent in the morning and is accontinated by hot weather, already, or exercise. Otzinass or weakness may be particularly bothersome during the initial period of desage adjustment and with postural changes, such as arising in the morning. The potential occurrence of these symptoms may require oftenation of pravious daily activity. The patient should be cantioned to avoid sudden or praiongart standing or exercise while laking the drug.
Concurrent use of granethiline and transcullar derivatives may carear excessive preducal hypericusion, bradycantia, and mental dequession.

If possible, withstaw thereby two wires, pien to

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Ton my guardinistric monasultate present in Esimil is equivalent as 4 mg guardibilities withten USP. The usual dosage of Esimil is 2 labels daily. As will any antihypertensive, dosage should be intrividually till atest for the patient. Oppanding upon the degree of hypertension, the patient should be started on the lowest possible dose (usually 1 tablet doubt not men gradually increased at wookly intervals until the destred esponse is obtained, Oney pressure should be recorded with the patient in the suprice position and again after 10 minutes of standing. Dosage should be increased only it the standing Dosage should be increased only it the standing blood pressure has not been reduced to dostred levels Dosage adustment should be made at not less than weekly intervals; maximal dosage should not exceed 4 labetes doily. It endofronal effect is desirable, supplement individually with guareth-ulino labetes.

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Patients receiving mora than 75 mg guanethidine.

bleis (white, scored), each containing to ma anethidine monosullate (equivalent to 84 ms anethidino sullate USP) and 25 mg hydro-lorothiazide; bottas uf 100.

CIBA Pharmacoutical Company Division of CIBA-GEIGY Corporation Summit, New Jersey 07901 CIBA

ALT AND HEREDITY have roles in the de-J velopment of essential hypertension but, says Dr. James P. Henry, of the University of Southern California School of Medicine, Los Angeles, they may be subject to the modifying influence of psychosocial factors. He cites studies done with his associates and by other groups in support of this premise.

Dr. Henry postulates that the rise in blood pressure with age may be an expression of chronic activation of "defense" and "alarm" responses which follow breakdown of the "coping processes" by which an ordered social group protects its individual members.

Studies of psychosocial factors in disease "increase the attractiveness of the view that the defense and alarm reactions may be [the] neurohumoral link between unfulfilled social needs and the development of high blood pressure.... There is evidence that by acting repeatedly over the years, this defense reaction will lead to a chronic elevation of systolic arterial pressure in the majority of the members of a disturbed social group."

The defense reaction, which includes activation of the sympathetic system and the classic alarm or Selvean adrenocurtical response, involves muchanisms of the hypothalamus. Their repeated arousal occurs when behavior sanctioned during the critical early learning periods is no longer appropriate to express normal urges.

The biochemistry obscure

Difficulties in meeting the demands of the environment may cause chronic disturbance of vascular, autonomic, and hormonal functions, and eventually provoke irreversible changes, such as fixed hypertension, cardiac ischemia and cerebrovascular disease. The biochemical action by which this repeated psychic provocation leads to hypertension is obscure. The catecholamine synthesizing enzymes in the adrenal medulla may increase and the cortex may hypertrophy, and under these circumstances catecholamine excretion and 17-hydroxycorticosterone output may in-

Studies in other laboratories support the theory of a central role for the psychologically significant fight-or-flight response in essential hypertension. Stimulation of the lateral hypothalamus in the experimental animal induces the defense alarm system. But when animals are exposed to mild stimulation of short duration (10 seconds) through an electrode implanted in the lateral hypothalamus, they show signs of alertness without the appearance of the violent symptoms of fight or flight. When such mild alerting stimuli are repeated

25-YEAR STUDY OF US NAVAL AVIATORS 4 Yra, 60

open circles = lameiss closed circles = males Relea of change of systolic blood pressure With age in different populations contrasts ganarally lower pressure in traditional, stable cultures (top) with cultures undergoing intermediate sociocultural change (middle), and those subject to increasing stresses (bottom). (From: Henry, J. P., and Gassel, J. C.: Am. J. Epidemiol 90:171, 1989.)

over and over for days and weeks, the animals develop moderate, sustained hypertension.

There is evidence of such mechanisms in man. A classic study involves men presented with an arithmetic problem to work out "in their heads" while they were harassed by the ticking of a metronome. They developed a syndrome typical of the defense alarm state, including elevation of arterial pressure, increased heart rate and

The defense reaction leads to chronic elevation of systolic arterial pressure in disturbed social groups.

(often) cardiac output, increased blood flow to muscles and a radically reduced blood flow through the gastrointestinal tract and kidneys.

Epidemics of high blood pressure resulting from exposure to repeated stress occurred in soldiers who took part in the siege of Leningrad during World War II, and again, in an armored battalion of seasoned soldiers during the desert war in

Libya. Over 30 per cent of the latter group had blood pressures of 180 mm. Hg systolic or higher. Within two months, most of this neurogenic hypertension was returning to normal.

In contrast, American doctors and nurses in two different mission hospitals in China during the 1920s had a significant decrease in casual systolic blood pressure over their stateside values. It was suggested that this may have been influenced by the less frenzied Chinese environment, a decreased anxiety level, and satisfaction in their work.

Asked whether he could define the characteristics of the person who is psychically hypertension-prone, Dr. Henry said: "A theory proposed at a recent symposium on Physiology, Emotion and Psychosomatic Disease suggests that such people are out of touch with their autonomic and limbic systems, that they have a deficiency in affect and fantasy. Perhaps when this deficiency results in a failure to be fully cognizant of the feeling of frustration and hostility experienced when things are not going the way these individuals have been brought up to believe they should, their defense and alarm mechanism may lack the proper modulation by coping controls, and respond too much and too long. Constant repetition of such excessive responses to conditions imposed by society could eventually result in sustained blood pressure elevation and pathophysiologic changes."

Population differences

The relationship between blood pressure and psychosocial stress is illustrated in the graphs showing the distribution of casual systolic blood pressure in various human populations. The top row shows findings among people well adapted from childhood to their adult lifestyle. Many still retain their traditional ways of life, undisturbed by social and technologic revolution. Blood pressure shows practically no major increase with age. The naval aviators in this group (top, left) who may be considered by some to be exposed to constant stress, were actually a select group chosen because of their thorough adaptation from youth to the demands of a technologic society.

The bottom row represents groups exposed to increasing socioeconomic pressures, and shows sharp increases in blood pressure with age. The blood pressure range of the middle series represents groups subject to intermediate levels of sociocultural change and stress, within which some traditional ties are retained. though members of the groups strive to adjust to changing conditions.





Dr. Cowis and the dialyzor cariridge

No-pump dialyzer

"THE NEW MARKLEY DIALYZER has two ▲ important advantages over most others now in use," says Edmund J. Lewis, M.D., director of the University of Chicago's Hemodialysis Unit, where the new artificial kidney is being tested clinically.

"The first is its compactness. At any given time, there are only about 25 cc of blood in the dialyzer—and therefore outside the body—and I think this benefits the patient, particularly the one who is on home dialysis.

"The second advantage, a consequence of the first, is its greater safety over other dialyzers. A majority of our patients willbe able to use this unit without a pump, the heart serving as the pump, which simplifies the procedure considerably. The great danger in home dialysis has always been the possibility of a severe blood loss in the event of accident.

"During dialysis, between 300 and 400 cc of blood a minute are pumped out of a patient, and if warning mechanisms remain imperfect, as they are now, the pump may continue to work even when there is a disconnected line, or a ruptured membrane that no one notices.

"But even aside from that hazard, there is a certain amount of trauma to the blood as it goes through the pump. I think patients who are able to use the dialyzer without the pump somehow feel better when the blood flows at its own rate."

Physicist Finley Markley, who developed the new dialyzer at the Argonne National Laboratory in collaboration with University of Chicago physicians, contributed the first departure in dialyzer design when he learned how to bond Cupophran, the very fine cellophane used

as a membrane in most dialyzers, so that it would be impervious to water.

"This dialyzer has 60 pleats on one side and 61 on the other," said Dr. Lewis. "The blood flows along one side of the pleats while the dialysate flows along the other. The thinner the film of blood you have, the more efficiently molecules of urea and creatinine can move through the cellophane, because they're always in very close contact with the dialysate on either side. That is the key to why this dialyzer is 30 per cent more effective than any others now in use."

Whether a patient will be able to use the Markley unit without a pump depends on the size of his blood vessels and the kind of access available to the vessels. Until recently, the university's Hemodialysis Unit had been using two standard types of arteriovenous shunts. The first, the Scribner shunt—a plastic shunt that comes out of the skin in connection with

Patients who are able to use the dialyzer without the pump somehow feel better when the blood flows at its own rate.

the vessels, forming an A-V cannula-is losing popularity because of associated infections, and because of its restraints on patients. They can't swim, and they must be very careful when they bathe.

However, the Scribner shunt can be used with the Markley dialyzer without a pump, because access to the vessels is simply a matter of disconnecting shunt leading between the artery and the vein and plugging into the machine.

The second type of shunt is the 50called internal arteriovenous fistula. To create it, a surgeon connects an artery and a vein in the arm subcutaneously, producing direct communication of blood. The veins become much larger because the artery is feeding them directly rather than going through the capillary bed. Access is made by inserting a needle into a vein in each arm, the shunted one furnishing the arterial supply, the other supplying venous return.

Infection infrequent

"This is the most convenient kind of access for most patients. It involves no foreign body, no tube coming out of the skin. After a while, they don't mind the insertion of the needles for each dialysis. Many of them do this themselves. But the blood flow we get for the arterial supply is usually not high enough in volume to run the dialysis without a pump."

The unit is now using another approach, the Thomas shunt, which Dr. Lewis believes will make it possible to use the new dialyzer without a pump. The Thomas shunt involves surgical implantation of dacron grafts into a major artery and vein, either in the axillary or femoral area. Each graft is then extended down, to emerge through the skin of the arm or the leg. The larger vessels provide a higher volume of blood supply.

Infection, while still a possible source of trouble in this external access, seems to occur infrequently, probably because connective tissue tends to interpenetrate and seal off the dacron webbing that covers the fistula.

"We have about 35 patients on dialysis now, most of whom are between 20 and 35 years of age and have chronic renal

failure. The typical patient has a history of untreated, or only intermittently treated, hypertension, and developed severe symptoms suddenly, followed by rapid deterioration of kidney function to the point of renal failure and the need for dialysis."

Drop-outs from care in the hypertension dinic are a problem. Some patients just stop taking medication when their blood pressure drops. Even some with renal failure and the ultimate motivation who understand fully the nature of their illness, can find it difficult to maintain the

Dr. Lewis feels that these patients could have avoided catastrophic illness if their hypertension had been controlled consistently from the start. "I don't mean to indict the patients. There is nothing in the histories we've been able to elicit that contradicts the possibility that physicians failed to prescribe, or that they didn't direct patients to stop medication once blood pressure had been brought down to normal. The situation simply highlights the enormous need for nationwide patient and doctor education.

"If a patient is doing well on dialysispsychologically, vocationally, and physically-he has a better than 90 per cent yearly chance for survival. The majority of our patients on dialysis are being offered at least 10 more years of life. Who knows what will develop in that time?

"Most of our patients will be kept on dialysis for years before being offered kidney transplants, for they do not have related donors, and results with cadaver transplants, even in the best of hands, are not nearly so good. When it works well

there is no doubt that the patient is better off than he would be on dialysis. But if it doesn't work well, very serious, irreversible problems may occur, even if the kidney is removed and the patient is taken off immunosuppressive drugs."

Right now, a number of scheduled transplant operations are being delayed at the University of Chicago hospitals because there is considerable uncertainty

The greater danger in home dialysis has always been the possibility of a severe accidental blood loss.

about how the provision of the new Federal law will be interpreted. The law says that a patient must be on a program for three months before the Social Security Department will take over payments. What is unclear is whether patients already on the program now will still have to go through a waiting period, "which only increases morbidity and mortality."

"The LifeMed dialysis delivery machine we use for home dialysis costs sumewhere between \$5,000 and \$6,000. Most dialyzer cartridges cost about \$15, and ive think the Markley dialyzer will run the same when it goes into commercial production. Salts for the dialysate cost about \$30. Simply for supplies, dialwis costs \$135 a week. And when it is done in a hospital, you must add on the cost of staff and overhead.

"We don't know what is going to happen to these programs. Illinois was once the most advanced state in this area. Five

years ago, before any other state, it enacted legislation to support patients on dialysis. Twenty-eight states have now patterned their programs after that legislation. Criteria for eligibility, however, excluded malignant hypertension, probably because a 30-year-old with chronic renal disease who has had hypertension for several years is at higher risk than another 30-year-old with chronic renal disease and no history of hypertension. Only in the last two years has the state begun to make exceptions.

"This is precisely what we are afraid of in the Federal bill. States had already cut back budgets in expectation of Federal money. But if mechanisms of the Federal law limit payments for dialysis, or set criteria that exclude malignant hypertension, it is going to be a catastrophe, particularly for patients in low socioeco-

nomic groups.

"This kind of legislation can be fiscally prudent but medically imprudent. I don't see a patient as a factor in the GNP or the Federal budget. Yet I may have to face making life or death decisions based upon whether or not a patient qualifies for State or Federal support or has thirdparty insurance.

"All the hard work that has gone into getting people to recognize the problem, and getting legislation to cope with it, can be wiped out if government agencies do not take a realistic approach to the payment of expenses of care. Research in transplant surgery of all kinds could slow down and we would lose the gains we've made in recent years. I think it would take the country a long time to recover them, if it ever does.

HYPERTENSION CLASSICS ... Sir William Gull: the arterioles

CIR WILLIAM WITHEY GULL (1816-90) of Guy's, pathologist, clinician and sarcastic epigrammatist ("Make haste and use all medicines before they lose their effectiveness."), presented a paper with H. G. Hutton of London Hospital in 1872, in which they described three forms of chronic Bright's disease.

They found (1) kidneys often much contracted, heart much hypertrophied, minute arteries and capillaries throughout the body thickened by hyalin-fibroid formation; (2) kidneys little contracted, but heart much hypertrophicd, minute arteries and capillaries much thickened; z (3) kidneys healthy, heart much hypertrophied and minute arteries and capillaries much thickened

They confirmed George Johnson's findings of alterations in the arterioles (1868), but did not accept that such Pathologic change could be attributed to urinary excreta. Rather, it was to be



attributed to a hyalin-fibroid formation in the walls of the minute arteries and a hyalin-granular change in the corresponding capillaries—occurring chiefly outside the muscular layer, but also in the tunica intima of some arterioles throughout the body. "This morbid change in the arterioles and capillaries is the primary and essential condition called chronic Bright's disease with contracted kidney."

In a lecture given in the same year, Sir William said:

It is always dangerous to rest in a narrow pathology; and I believe that to be a narrow pathology which is satisfied with what you now sec before me on this table. In this glass you a much hypertrophied heart and contracted kidney. This specimen is classical, It was, I believe, put up under Dr. Bright's own direction, and with a view of showing that the wasting of the kidney is the cause of the thickening of the heart, I cannot but look upon it with veneration, but not with conviction. I think, with all deference to so great an authority, that the systemic capillaries, and, had it been possible, the entire man, should have been included in this vase, together with the heart and kidneys; then we should have had, I believe, a truer view of the causation of the cardiac hypertrophy and of the disease of the kidney.

and a service of the service at the residual mediantification of the territorial residual medical supplies his property

The root of antihypertensive therapy



Serpasil...where antihypertensive therapy often begins

Most investigators recommend that elevated blood be controlled to help prevent future complications. But selection of treetment must be

besed upon the overell condition of the petjent-young and old alike, Once you Sarpesil may be a logicel choice.

Serpasil...a quality reserpine, assured by quality control

Serpasil, the original reserpine, is established as a quality reserpine. Exacting quality control procedures, including 99 tests performed during the manufac-turing process, help guarentee its purity, uniformity, and potency.

Serpasil lowers blood pressure and slows rapid heart rate

Serpasil ects both on the autonomic end central nervous systems, lowering arterial blood pressure end slowing repid

Serpasil reduces the "tension" in hypertension Serpasil eases the "tension" hat plays an important part in

neny cases of hypertension. Warning: Mental depression, occalonelly severe, can occur with use Serpasil. Discontinue drug et the

Serpasil...the antihypertensive to build on

If you decide to use Serpesii in combination with other antihypertensive agents, lower dosage of these drugs is permitted, minimizing the incidence and sevarity of their sida effacts...an Important consideration, particularly in

Serpasil® (reserpine)

INDICATIONS

8asad on a review of this drug by the
National Academy of Sciancas-National
Rasearch Council and/or other information,
FDA has classified the indications as follows

Elfactiva
Crat Sarpasili: Mild assential hypertanalon;
edjunctive therapy with other antihypartensiva egents in the mora severe lorms of
hyperiension; reliat of aympioms in agitateo
psychotic states (eg. schizophrania), primarily in those individuals unable to
iderate phenothiazina Gerivativas or thosa
who also require anlinypertenelve madication.

tansiva emergencies, such ee acuta hypar-tansiva encephelopathy, in which it is nacesary to reduca blood pressure repidity, psychiatric conditions, to infliete treatmani in those patients unable to eccept orei

in those pallents unable to eccept orel medication, or to control extensive egitation. "Possibly" Effective

Oral Serpasil: As an entienxiely agant in chronic enxiety, tension, mild anxiety slets, and in manegement of anxiety and tension associated with neuroder metitie end other dermatosee; es a trenquilizer tor psycholierapy in parenoid end manic states or as adjunctive iherapy for the treatment of verious psychonauroses, narvous conditions, end hyperemotionalism; tor tension head-acha; for menopausal ayraptoms; for general paresis; for hypertension of toxemia; for techycardie end psipitations; for conditions in which barbiturales have been commonly prescribed, such as enxiety, tension, narvousness; end for angina pectoria.

Perenleyed Sarpasit (Intranusculer): Psychiatric conditions such as paranole, menic atric conditions such as paranole, menic states, and the manic phase of menic depres sive psychosis; lechycardia; anxiety and

tension. Final classification of the less-than-effective indications requires turthar invastigation.

Known hyperaansitivity, mental dapression (espacially with suiclost tandencies), active peptic ulcer, ulcerative colitis, digitalle intoxication, actic insulticiancy, and patients receiving elactroconvulsive therapy.

tion, acrite insulticiancy, and patients receiving electroconvulsive inerapy. WARNINGS Manual depression, which may be severe anough to result in suicide, can occur in aesociation with the use of this drug, whather or not there is a pravious history of depression or any other functional CNS manifestation. Discontinue the drug of the first evidence of depression, such as early morning insomnie, loss of appellite, impolence, or eall-depression. Extreme caution should be exercised in treating those pations with a history of depression. Drug-induced depression may parsial for several months after orug withdraws.

orug withdrawai.
The drug should be discontinued for of least
Iwo weeks before giving electroshock thoropy.
MAD inhibitors should be avoided or used with

MAO inhibitors should be avoided or used with extreme caution.
Usage in Prograncy
The safety of reserpina for use during prograncy or tectation has not been established; therefore, the drug should be used in progrannt patients or in wormen of childbearing potential only when, in the judgment of the physician, it is essential to the welfare of the petient, increased respiratory tract sacretions, masal congestion, cyanosis, and anoroxia may occur in intents born to reserpine-treated mothers alnos this drug is known to cross the plecantal barrier and to appear in breast milk.
PRECAUTIONS

It mey precipitate biliary colic in patiants with galistones.
Secause of the affect of catechotamine depiation, eaihmelics are more apt to be hyparsensitive to the drug and their condition may be aggravated. Therefore, special care should be exercised when treating patients with a history of bronchiel ashima.
Caution should be exarcised when treating hypartensive patients with renal insufficiency since they adjust poorly to lowered blood pressure levels.
Use Serpasil cautiously with digitalle and quinidina aince cardiac arrhythmias have occurred with rauwoitle preparations.
Concurrent use of guanethidine and reuwottle defression, and posturet hypoteneion. Hyperiensive patients in generel heve a higher risk of intraoparative hypotension and other cardiovascular complications than normolensive patients. Serpasil-treated patients are not known to have a higher risk of such compilications than otherwise comparable hypertensive

Preoperative with trawel of reserpine does not assure that circulatory instability will not occur. It is important that the anesthasialogist be aware of the callent's drug intake and consider this in the overall management, since hypotension too occurred in patients receiving rainwalls preparations. Anticholinergic andlor adranorgic drugs (eg. malaramthol. norspinaphrino) have been employed to treat adverse vagocirculatory offects.

vagocirculatory oftocts.

ADVERSE REACTIONS

Rauwoilla praparations have caused gestrointesiinal roactions including hypersacration, nausea, vomiting, enorexie, and diarrhea; cardiovascular reactions including angina-lika symptoms, arrhythmias (particularly whan used concurrantly with digitalis or quintoins), and bradycardia; cantral nervous systam reactions including drowsineae, depression, narvousness, paradoxical anxiaty, nightimaras, and, raraly, parkinaonian synorome and other extrapyramidal tract involvament; CNS sansitization maniliasied by dull sonsorium, osafness, glaucome, uvalits, and optic atrophy. Nasal congestion is a traquent complaint. Pruritus, rash, drynsss of mouth, dizzineas, heedache, dyspnas, synoope, epistaxia, purpura and other hamalologic reactions, impotence or decrease fibilo, dysuria, muscular aches, conjunctival injection, weight gain, breast angorgensnt, pseudoiscistion, end gynecomestia have been reported. These reactions are usually reversible and disappaar etter the drug is discontinued. Water relantion with adama in patiants with hypertensiva vasculer disease may occur rarely, but the condition generally cleare with cessation of therapy or with the administration of a diuretic agant.

diuratic agant. DOSAGE AND AOMINISTRATION Oral Serpasit

For Hyperlension: In the average patient not receiving other antihyperionsive agents, the usuni initial dose is 0.5 mg dully for 1 or 2 weeks. For maintenance, roduce to 0.1 mg to 0.25 mg dully, because serious moniel dapression and other also offects may be increased considerably.

considerably.
Sarpasil may be combined with other anti-lypgrionsive ogents—such as a thinzion and/or hydralezine, to bring about a maximal therapeulic rosponse. For Psychiatric Disorders: The usuat Initial

For Psychiatric Disorders: The usual initial desa is 0.5 mg orally, with a runge of 0.1 mg to 1.0 mg. Actival dosage upword or downward according to the patient's response. For Tochycardie: Recommended dosage rangels 0.1 to 0.5 mg orally par day. Baptic heart rate is usually relieved within 1 to 2 wooks, at which time the daily riose should be reduced. Suppression of Inchyrantin nilen persists after therapy is stopped. Note: In patients receiving digitals or quinhibitur, give recepting cautiously. It is not recommunicated in cases of aortic insufficiency.

insufficiency.
For Anxiety-Forsion and Related Districts:
Initial daily closure tampe is 0.1 to 0.5 mg
nrally, as a single close or in divisied doses. For
maintanance, mitted chasps according to
patient's response; as title as 0.1 mg per day
is often sufficient.

partions a response; the term as it. I migher day is often sutticiont.

Parentezol Sorpasil (intramuscular)

Sorpasil may be administered parenterally in the simpleum treatment of hypertensive crises. Henceuse of the varying responsiveness, a literation procedure should be used. As initial sloss of 0.5 to 1 mg internativentarily is tollowed in intervals of 3 theory, it now assay, by itses of 2 and 4 mg initial the blood pressure foliate the desired level. If lim 4-mg dose is ineffective, olitor antihyperionalve agents shorted be used. An initial dose larger than 0.5 mg may induce severe hypotension, particularly in patients with carobral homorrhage.

Carotal titration of dosage is required to concerning used of sorpesil with other antihyperionsive agents.

comlinnt use of Serpesii with other antihyperlonsive agents.

Serpesii may be administered intramuscularly in
psychiatric emargencies to initiale trealment in
these patients unable to accept orei medication
or to control exirama aglisilon. The usual dosa
is from 2.5 mg to 5.0 mg, tollowing a small
initial dosa to isati sensitivity.

HOW SUPPLIED
Tablots, 1 mg (white, scored); bottlas of 100.
Tablets, 0.25 mg (white, scored); bottlas of 100.
Tablets, 0.25 mg (white, scored); bottlas of 100.
Tablets, 0.1 mg (white); bottlas of 100. 500 and
1000.

Elixir (green, ismon-time llavered), 0.2 mg per

Elisir (green, ismon-lime llavored), 0.2 mg bat 4-mt teaspoon; bottles of 1 pinl.

Parenteral Solution: Each mi contains 2.5 mg reserpina, 0.1 mi dimethylocalide, 10 mg adipic acid, 0.1 mg versene, 0.01 mi benzyl alcohol, 0.05 mi polyethylone glycol, 0.5 mg escorbic acid, and 0.1 mg aodium suitlie in water. Ampuis, 2 mi; carlone of 5. Multiple-dose Viets, 10 mi; carlons of 1, boxes of 6.

CISA Pharmaceutical Company

Serpasil (reserpine)

early effective control of hypertension can save lives

CIBA



Above at left, elderly persons enjoy their ride up the Hudson. The program run by the Hospital Ship gave the participonts a doy's outing and lunch as well as several types of screening, enre, and oilvice. At right, one of the women has her blood pressure taken. Eye examinations, blood tests, and general physical examinations were among the tests also given. The Hospital Ship program reoches several thousand of the area's senior citizens each summer.

City Health Fairs Take Fun, Medical Help to the People

New York, LIKE MANY DITHER LARGE CITIES, is having an increasing number of health fairs during the summer. Some are run by city agencies, some by private medical institutions, but all aim to bring health care and information to areas of the city and groups of people that do not have easy access to health facilities. Along with the medical programs come entertainment and fun for the participants. Shown are three types of fairs held this summer in New Yorka community block porty and health fair held in connection with the Health Services Administration of the city, a trip up the Hudson and health programs for the elderly on the Hospital Ship, and a fair run by Brookslaie Hospital Center.







At the Brookdale Fair, held in a striped lent, the emphasis was not only on examinations but olso on education and advice. Many of the street health fairs, like the one al right, are held with the ossistonce of local block groups.





At the Brookdale Fair, refreshments, bands, a pupper show, and special attractions such as the trampoline helped in relaxing the children.

Street fairs provided measles and rubella immunizations and tests for lead polsoning, sickle cell anemia, and VD. Hypertension screening, drug referrals, and lectures on dental care were





U.S. Physician Shares Expertise With U.S.S.R.

Moscow-At 8 A.M. every working day Dr. James F. Holland and his wife leave their apartment on the edge of Prospect Mlra, one of this city's main boulevards, in their Volkswagen minibus. Mrs. Holland drops one of their six children off at a city school and drives her husband to a main subway station. By 9 A.M. he is at work in his office at the Institute of Experlmental and Clinical Oncology, the principal U.S.S.R. center for research in

After that, Mrs. Holland, a psychiatrist and consultant to the National Institute of Mental Health, drives to Moscow's man of a new department in that field and 4.000-bed Kaschenko Psychiatric Hospital. There she starts her day's work alongside Soviet investigators and clinicians at the research institute on the grounds of the

Between them, the Hollands are demonstrating the reality of the agreement signed in May last year between the United States and the Soviet Union for collaboration in a number of key areas of medicine and

Four main sectors are envisaged in the cancer program-virology, immunology, chamotherapy, and genatics. Dr. James

No allergens

But earth is not so lucky.

For prompt, symptomatic relief in allergic rhinitis*

carried by astronauts on Apollo space Ilights.

prescribe ACTIFED*... the antihislaminic-decongestant

for symptomatic relief in allergies*

INDICATIONS: Based on e review of this drug by tha

National Academy of Sciences—National Research Council and/or other information, FDA has classified the indica-lions as follows:

"Probably" affective For the symptomatic treatment of seesonal and perennial affergic minitis and vasomotor

Final classification of the less than effective incide

in space!

an international reputation for his thernpeutic techniques in acute lymphoblastic leukemia, is the first of the U.S. "superconsultants" who will operate the exchange. Officially attached to the National Cancer Institute, he has been to the Soviet Union with his family since November.

Before taking up the consultancy, he was chairman of medicine A and director of the cancer clinical research center at Roswell Park Mcmorial Institute, Buffalo, N.Y. When he returns to the United States later this year, he will take a post as Professor of Neoplostic Diseases and chairdirector of the cancer center at Mount Sinai School of Medicine, New York.

Now, nfter saveral months in Moscow, Dr. Holland walks along the corridors and through the wards of the institute with the air of a man who is completely at home. No tyro at languages, he carries on con-

versations in Russian with some of the staff and in German with others. He got his introduction to Russian with a crash course ("10 hours a day for 10 days") before leaving Bethesda, Md., and he and Soviet doctors are up on languages, too, and Experimental Oncology in Moscow.

PRECAUTIONS: Although pseudosphedrine hydrochloride is virtually without pressor effect in normotensive pallents, it should be used with caution in patients with hypertension. In addition, even though triprolidine hydrochloride has a low incidence of drowsiness, appropriate precautions should be observed.

exhibit no side effects. However, certain patients may exhibit mild stimulation or mild sedation—no serious side effects have

AOVERSE REACTIONS. The great majority of patients will



Dr. James F. Holland (center) discussea chest films with colleagues during a visit his wife take regular tutoring at home. The to the wards at the Institute of Clinical

and since many are fluent in English, com. munication is not a major problem.

Considerable efforts have been made by the Soviet authorities to make it possible for the Hollanda to work and live as they want-in direct contact with the world

"There were some suggestions that we should be given one of the apartments normally allocated to diplomats. But we ittdn't wnut to live in that kind of milleu, in which everything is laid on-gasoline, thenter ticketa, duty-free liquor and elgarettes, and so on-and the only other people you meet are illplomats and their multics," Dr. Holland commented.

"Going shopping is a lengthy business." the physician said.

He and his wife have now adapted to the system , in which the customer first identifies what he wants to buy in the stora, then obtains a ticket for it from the assistant. The ticket has to be brought by the customer to the eashier, who takes the money, stamps the ticket, and gives a receipt. With this receipt the customer then returns to the assistant to pick up he

Fortunately, the Soviet authorities were able to provide the Hollands with a daily helper who copes with the shopping and other chores, thus freeing Mrs. Holland for her work at the psychiatric institute.

Because of their desire to expose their children fully to the cultural experience of life in Moscow, they did not want to send them to the schools run for the diplomats' families. They learned from a friend that some schools in Moscow put special emphnsis on English-language studies.

The principal of the school they approached agreed immediately to take their five school-age children.

"Wo found the tenchers warm, human, and flexible," Dr. Holland says. "For my youngest child, who had the most difficult adjustment to make, the school authorities moved a Russian child who spoke English well from another classroom to sit beside him and help him

The Russians show their appreciation in other ways. Dr. flolland can count on getting lickets for the international les hockey gnmes for his sons-a suro sign of favor. His daughter wanted to take mule lessous-and was granted a place at Moscow's Tchnikovsky Conservatory.

There are times when the hospitality becomes a little overwhelming. As part of his program of work in the Soviet Union, Dr. Holland has a achedule of visits to medical centers in a number of areas, including Alma-Ata in Kazakhstan, Sukhumi ami Tbilisi in Georgia, Icreva in Armenia, and Riga in Latvia, as well as Leningrad and Kiev. On such occasions, Dr. Holland is usually invited for what is cheerfully referred to as "a little tea." Io fact, he often finds himself in froot of o table groaning with caviar, sausages, cakes, fruit, and vodka, to all of which full



The Holland family sits down to lo their apartment, The apartment 785 provided far tham by the Moscaw City Conneil and is in the center of the city. It was redecorated by painters and plasterers who were aent over from the bospital.

One Man...and Medicine ARTHUR M. SACKLER, M.D., ternational Publisher, Medical Tribun

An Endangered Species - Homo Sapiens

TNOUR ECOLOGIC ERA, millions enroll to "protect the environment." "Clubs" organize to prevent the rape of the land. Legal actions seek to project foresta, birds, and beasts. Strip mining is condemned. Pipelines are "enjoined." A steady best of "education" or propaganda focuses on "dountsday." 1984, or the year 2000. In response in clear and present dangers we act to protect flora, fauna, and the biosphere. Some of my best friends

had such movements. Let it be clear that we firmly endorse their goals and their efforts. They are well meant, well financed, and well organized-ull to the good. But why do our Government. our society, and most of our crusaders rum their backs on one endangered species-man? In that present reality too

The Truly Baffling Queations

Granted, man cannot live alone on this planet. Assuredly, he is its worst polluter. Agreed that man helics his title of House upiens both in his rapacious behavior and unhappily, in his efforts at "conservation." What baffles us are the priorities heing set. habald eagle more precious than a black baby? Are a thousand trees more important than a thousand lives? In a London newspaper one single item reports the saysee mutilation of tail Tutsi tribesmen as their feet are chopped off tu shorten them to the height of their Hutti foes, Hundreds of American newspapers and magazine stories and TV shows stress the entastrophe of chopped clown trees and of forest free Yet, when thousands die and priests beat lestimony to massacres, no mie does mything. As in an earlier day, when milloss of men, women, and children merched lato gus chambers, were strifed into "ovens," or shut and shareled into mass graves, the ery for help, her pity, fed neither echo mir answer. Why?

Who Acts?

I'm all for the happiness of the whorping crane and the Bengal tiger - may they prosper and multiply. Hut ninch as I'm moved by their plight, I cannot forget the mager and the sickness, the misery and disease of tens of millions of winners time children, and men, too, Have a drugballdomide-cripple 5,00t) to 10,000 childea end the governments of the world mobilize to meet the tragedy. Have hundress of thousands, even a million, chiline maimed, mentally and physically, by Reject and medical Ignorance by what a onate doctor has called "thalidomide " and who listens? You can save habies for their parents"? and brains with the simplest of measuresquate maternal protein intake and presvation of mineral and vitamin balanceout who acis?

Contradictions in Priorities

One is completely baffled by the disloned priorities even in the United States. Sall members of the National Institutes of Health make recommendations in regard the management of the aborted fetus. An impublished Government report indithat staff scientists are involved "in Proposing new ethical guidelines for rethe and the human fetus," and the sugsellon is made that "research on very any birth should be done first on animals the hear statement when other possibilithe have been exhausted." Yet the very bidges fund research in which rewhich used as controls in the face of an Michalite bibliography of the effects of minimal deficiency in pregnant animals.

Roger Williams, the first man to identify, isolate, and synthesize pantothenic acid, the pioneer who named folic acid, a man respunsible for some of the major original work in the field of vitamin research, and niember of the National Academy of Sciences, opened his chapter on "Stillborn, Deformed and Mentally Retarded Babies" with the statement: "If all prospective human mothers could be fed as expertly as prospective animal mothers in the laboratory, most sterility, spontaneous abortions, stillhirths, and premature births would disappear; the birth of deformed and mentally returded habies would be inraely a thing of the past.

"It has been amply demanstrated throughout the entire nulmal kingdom that during the period of pregnancy nutrition must be at a particularly high level."

Superior Nutrition for Whnni?

He goes on to say, "The autrition available to millions of humans is no better, relatively speaking, than that which was furnished taboratory rats many decades ago-long before modern mutilional knowledge began to accumulate, . . . The truth is that the nutrition available to household pels and form unlimits would very often rate good to excellent.... What excuse can there he to justify the fact that mutrition for unimals is for superior to that for humans?" He stated, "It is unthinkable that anyone would experiment by giving pregnant wumen deficient diets in order to see how badly their babies might develup; but experiments of this sort have been done with unimals and the results are clear-cut."

In a profession in which prevention is recognized as the hest medicine, we cunfront the incredible approach to prematurity and defective bables-a thrust for more intensive care units: expensive and tinic consuming, too little and too lale. How can one turn his back on basic knowledge which cun prevent damage and focus on incasures which will "save babica damaged in utern fur a life of mental retardation, spasticity, misery for themselves and

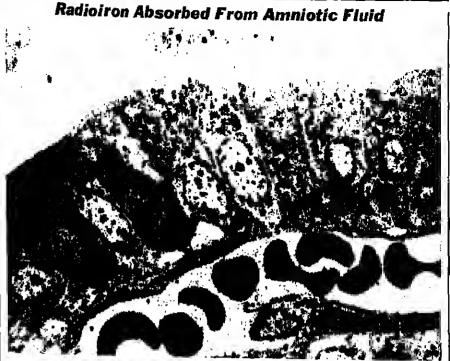
Population Noncons

I almost forgot-we do have societies and crusades for "man": the Z.P.G. move-I'm for the bald eagle, for the whooping ment, the doomsayers of the population Gase, and the Bengal tiger—but first and explosion, the exploiters of the "population bonth." Having spent set gathering data on this subject, I've develuped a sensitivity and found myself reacting almost anaphylactically to what I call "demographic nonsense" and what the world-famous scientist and historian of science J. D. Bernal called "reactionary nonsense.

Do I think it would be to the good if population growth slowed? Of course I do. Hut I cannot help myself; I first want to see those now on earth cared for now, their health protected, their diseases treated, before I worry about the hypothetical and possibly mythical extra billions crowded together shoulder to shoul-

What Does Man Reed?

If you want to get an idea of distorted perspectives, read the repeated reports of recommendations by some scientists that we must prepare to license people as to



serve as a vehicle for administering natrients, drngs, or other compounds. la fetal absorption studies on rats at New York Madleal College, radioactive iron from awallowed amniatic fluid was detected in the intestina, liver, and spicen. This radioautograph ahows absorption by the nuccoast epithelium of the fetal intestine. Silver grains (black dots) over the cytopiasm indicate passaga of radiairon through the cell to underlying connective tissue and blood vessels.

how many children they may have. Do bubies pollute the environment more than heer cans? Does man, biologic man, conshare and destroy more than motors? Do we really alt need two-car, even three-car, families, two TV sets, or three or more radios? Has anyone even studied how much these artifacts of our lives contribute to pullution? Man's feces make a good fertilizer, and man, organically, is essential to our ecosystem. His cana and cars are not. Sure, they contribute to convenience and some are even essential for transportation, communication, and work, But does each man need one or more six-passenger cars to transpurt one tu two people? We

license cara-let's license them by horsepower and number per family. Why not? Is that beyond the realm of the possible? Or do "we hold this truth to be self-evident," that GM and Ford have a greater right to produce cars than you and I to



You do not have to be a poet, but you Nikolai Nekrasov (1821-77)

Phenomenal Growth Reported In Medical Ethics Teaching

WASHINGTON-Ethics leaching is rapidly moving out of the closet and into the niedical school enrileulum, a specialist in the field tohi the American Medical Association's fourth National Congress on Medi-

In fact, "the growth of [ethics] leaching programs has truly been phenomonal, said Robert M. Vcatch, Ph.D., associato for medical ethics at the Institute of Socicty, Etbics, and the Life Sciences at Hastings-on-Hudson, N.Y.

He reported that an institute study of ethics teaching at 95 of the nation's 102 medical schools disclosed that I4 offered no Instruction In medical ethics, and 37 others sald the subject occasionally came up for discussion in various couraes but was not taught io any systematic way. In 44 schools, the presentation of athles has become fairly aystematized.

"If we are about at the point when the honeymoon is over," Dr. Veatch declared, "we can truly look forward to a time when fully incorporated into the family of medical disciplines." In those schools where ethics teaching

is atill on an improvisatory basis, he aald. classroom discussions were described as arising most often in courses on community medicine, social medicine, introduction to the patient, legal medicine, psychiatry, and public health, as well as in case discussion during students' clinical

"It appears that the difference between the 37 schools where medical etbics was taught only in ad hoc situations in other courses and the 14 schools which claimed they had no medical ethics instruction is In the eyes of the person reporting to us,"

Dr. Veatch remarked. The 44 medical schools where more systematic training to sthics is offered vary medical ethica."

widely in their approach to the subject, he said. At least 37 now offer some kind of cleetivo ethics courso; examples are "Ethical Considerations in the Practice of Medicine" at the University of Oregon. "Human Values in Medicine" at the University of Nobraska, and "Ethics and Medicine" at Pennsylvania State University. Other schools give instruction focused on specific ethical issues, such as two that offer elective courses on death and dying, two others that have courses on ethics and human sexunlity, and Columbia Univeraity, which lias offered a course on the ethical aspects of the medical control of buman behavior.

Two Schools Require Courses

At two schools with religious affiliations, thics is a required course, and Ohio State University's Pilot Medical School has experimented with a set of 14 two-hour sessions on medical ethics for an entire

Other ways in which medical schools the systematic and integrated, well-devel- have, at one time or another, taught ethics oped medical ethics teaching program la are through special lectures and conferences; lectures on apecialized topics in department courses, such as discussion of abortion and population control in obstetrics classes; Interdisciplinary conferences or symposiums; and clinical case conferences, according to the study.

"Another of the more innovative methods of teaching medical ethics is patterned after the senior-year clinical clerkships which in many medical schools are offered to medical students on the hada of a one-month, full-time intensive clerkship," Dr. Veatch sald.

"Our institute has now taken interns from a number of different medical schools for a month or more of intensive study. Topics have included the care of the dying, the ethics of allocating acarce medical resources, and the history of



Clinical Trials









Higher Mortality Seen in Teen Pregnancies

course. Subconsciously, they may want a

brake. Some girls are relieved when I say

No." She noted that "the door is left open

a crack" and the patient is assured that

ANN AROOR, MICH.-The death rate for teen-age mothers and their babies is 30 per cent higher than that for mothers age 20 to 24 years and their babies, n Detroit physicion reported here, asserting that the situation "is not just femi and maternal

"There are large social consequence in teen-age pregnoncy-curtailed education, the mire of economic disadvantage, the emotional conflict, and perhaps suichile," Dr. Joan Stryker, of Hutzel Hospitat, tolil a seminar on human sexuality at the University of Michigan.

Dr. Stryker, who is also medical director of the Planned Parenthood League of Detroit, said that there is a great need to provide teen-agers with more intensive, accurate, and honest information on all aspects of sex.

She described the early results of two birth control centers for teen-agers that she helped to establish. One is a clinic for pregnant girls 17 years old ond younger, operated at the hospital, and the other a Plaoned Parenthood teen center for both boys and girls.

Detailing "subtle" changes in the two years that the clioics have been operating. ahe said that, first, there are fewer irate parents calling, "in fact, the parents are becoming involved even to assistance in the form of money and time." Another change, she reported, has been in educetion-the patients request more sex informetioo and the word has gone out that "the clinics offer worthwhile information and comprehensive health services."

A survey of the pregnant girls in the clinics, conducted this spring, found that 81 per cent had never used a contraceptive; in a survey conducted last fall the figure was 95 per cent.

64 % Requaated Abortions

Both surveys showed that about 64 per cent of the girls requested abortions. Of the 36 per cent who chose to deliver their bables, the spring survey disclosed that about half said they intended to raise their bables and remain single, 15 per cent sold they intended to marry, and 3 par cent sald they would place the infants for adoption. In the fall survey, the respective figures were 5 per cent, 21 per cent, and 9

Describing her approach to sex counseling and the provision of contraceptives, Dr. Stryker said, "If the teen-ager has bever been sexually active but comes for

Tokyo MDs Agree to Plan For Hollday Emergencies

Medical Tribuna World Sarvice Toxyo-Physicians at 200 hospitals and clinics in Tokyo will treat emergency cases on Sundays and national holidays under an agreement between the city Government and the Metropolitan Medical Association. This is the first agreement of

lts kind in Japan. Three hundred beds and 100 medical institutions also will be avellable for cases requiring immediate hospitalization. The city has set aside more than \$1,000,000 in its fiscal 1973 budget for the program.

her for two reasons-the legal, so that we when she is ready to have intercourse she cannot be accused of contributing to the could come back. delinquency of a minor, and to be sure the patient really wants to have sexual inter-

With respect to the contraceptives prescribed, Dr. Stryker said that for the girl who has never been pregnant and who has intercourse less than once o month, it is suggested that she use vaginal jelly ood her partner a condom. For the more sexu-

ally active girls, birth control pills are prescribed for those in good hormonal bainace, but a diaphragm, intrauterinedevice. or combination of jelly and condom for those with irregular menstrual cycles.

Dr. Stryker recommended the pill for girls who have been pregnant, but she added that an intrauterine device may be a better choice of contraceptive for young women who are likely to forget to take the pill regularly.

Gastroenterology

Proper Training, Temperament Urged in Use of Colonoscope "All of us are very much concerned that

Wednesday, August 8, 1973

NEW YORK-A warning that mayone planning to use the new fiberoptic colonoscopes should have odequate training us well as the right kind of temperantent was souoded during a panel discussion of colonoscopy here at the annual convention of the American Medical Association, Use of these highly sophisticated instruments is oow increasing rapidly, yet almost no courses are avoilable to provide instruction la techniques, the panel members told a session held jointly by the Section on Colon and Rectol Surgery and the Section on Gastroenterology.

"Fiberoptic colonoscopy constitutes a real advance in the diegnostic and therapentic armamentarium of the meillcal profession," said Dr. William I. Wolff, of New York's Beth Israel Medical Center. where he and colleagues have performed more than 4,000 diagnostic colonoscopic examinations and some 600 polypecthe procedure itnesn't develop an undeserveit illsrequite because it is not carried out property," he ailiful. Dr. Wolff urged the development of

training programs so that physicians can gain expertise and experience under super-

Several specialty groups, including gastroenterologists, surgeons, proctologists, and radiologists, are showing keen interest in performing the procedure, he pointed out. But he emphasized that "it isn't really important who does the procedure so long as the person doing it is competent. The colonoscope amounts to a probe,

he said, quoting the old surgical maxim that "there are few more dangerous instruments than n probe with no brains behind By Dr. Wolff's definition, competence

includes the following: Manual dexterity, termed essential.

An interest in what is being done.
Knowledge of gastrointestinal diseases, since what is seen "must be correctly interpreted and put into context with the pa-

tient's clinical symptomatology."

Suitable temperament, it takes time "to develop the skill required to pass the instruments and to do this safely—if the physician is going to hurry, he's bound to get

into trouble." Judgment, "The endoscopist must recognize his limitations, the limitations of the case, and when to proceed and when not to go ahead."

A fellow panelist and surgeon, Dr. Howard Jay Eddy, Jr., of Garden City. Long Island, also ndvocated setting up

workshops or courses to provide training. With the legal implications of performing colon surgery without a prior colonoscopy looming on the horizon, the necessity for the establishment of training programs

is of the grentest importance," he said. Meanwhile, Dr. Eddy thinks some form of limitation should be imposed on the "would-be 'instant endoscopist.' "

Discussing reported instances in which hysicians have bypassed offers of trainbecause they preferred to "try out procedures for themselves," he said he had only one commeat:

"God help the patient and the pro-

Duodenal Ills May Be Causing Upper GI Bleeding

New Yoak-Hemorrhagic duodenitis, an entity distinct from peptic ulcer disease or other known inflammatory diseases of the esophagus or stomach, should be considered in the differential diagnosis of upper gastrointestinal bleeding, a Michigan gastroenterologist emphasized here.

Of 35 patients with nonspecific duodenitis, eight were observed with hemorrhagic duodenitis significant enough to cause acute upper gastrointestinal bleeding as evidenced by hematemesis and/or melena and blood-loss-type anemia, Dr. Eugene A. Gelzayd of Southfield, Mich., told a meeting of the American Society for Gastrointestinal Endoscopy, held in conjunclion with the annual meeting of the American Gastroenterological Association.

Clinically, he reported, anemia was resent in seven of the eight patients, and four required multiple transfusions. Hematemesis was present in four cases and mclena in all eight. Dyapeptic epigastric distress in five patienta preceded the onset of the bleeding by a voriable period of time. Two patients were asymptomatic and a third had onset of massive bleeding during a myocardial infarction.

Radlologic findings included spasm and irritability of the bulb and coerse folds in the proximal duodenum in six of seven patients studied, said Dr. Gelzayd. Maximum histalog gastric analyses, quantitative serum immunoglobulins, and direct examination of duodenal secretions for Giardia and other perasites were normal in five

Duodanoacopy Was Abnormal

Duodenoscopy was abnormal in oll eight patients and included hyperemia. mucosal friability, and superficial erosions with active bleeding. In three patients there was also mild mucosal nodularity of the bulb and proximal duodenum. Endoscopically, the stomech was normal in all patients. Mild crosive esophagitis without visible biceding was sean in one neuto alcoholic patient; two others with olcoholic liver disease had lotact esophageal

Histologic evidence of duodenitis was found in six potients who underwent target mucosal blopsies of the bulb and proximal duodenum, Dr. Gelzayd seld. This ipcluded superficial ulcerations of the epitheilel lining, mild degrees of villous flettening, crypt dilatation, and dense acute and chronic inflammatory cell infiltration of the lamina propria, which, in two patients, extended into the Brunner's giand area. Edcma, dilated and engorged capillaries, end intramural bemorrhage were also noted,

A history of significant alcohol intake was recorded in four patients, and aspirin usage before bleeding, averaging four to aix teblets a day for several deys, in two

Conservative treatment, consisting of nasogastric intubation and suction, antacids and milk, diazepam, and reassurance, sald Dr. Gelzayd, resulted in cessation of hieeding in seven patients for up to two years' follow-up. The patient with the myocardial infarction died.

"Correction of anemia with blood transfusion or iron is also importent," he said. He added that, "conceivably, surgery moy be advisable in some cases for upcontrollable hemorrhage.

He recommended endoscopic follow-up n patients with hemorrhagic duodenitis, Follow-up duodenoscopy and biopsy were performed in five of the patients, nine to 18 months after the initial bleeding cpisode. Three demonstrated mild patchy hyperemia and friability, one mild nodularity of the bulb mucosa, and the fifth a normal-appearing duodenum. Actively bleeding erosions were not seen, but in all five patients histologic inflammatory changes of duodenitis were still present

Coauthor of the report was Dr. David

the bare facts.

in many dermatoses the less they wear, the more they need...

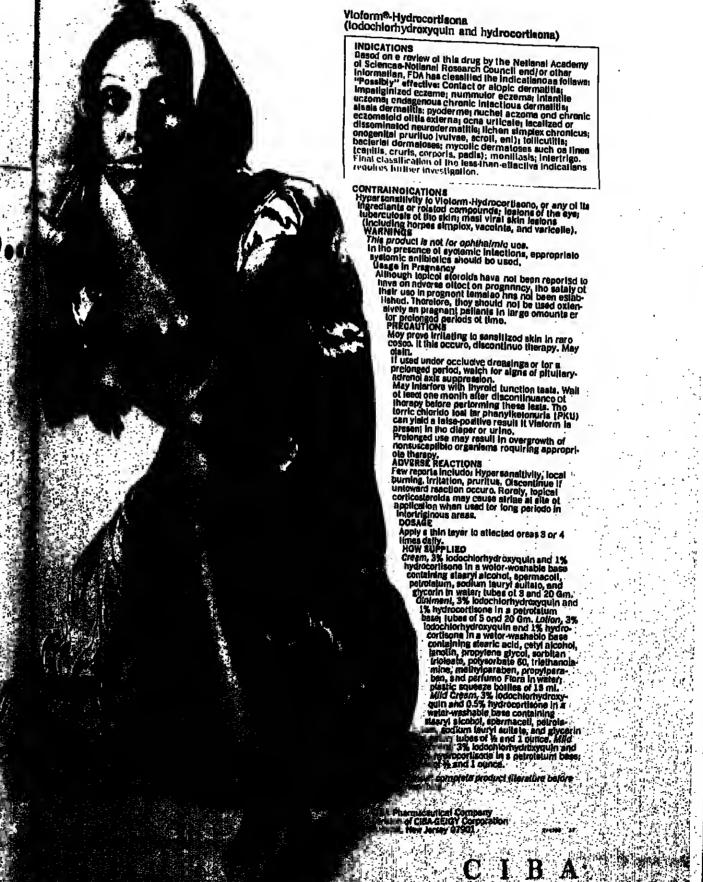
Vioform-Hydrocortisone (iodochlorhydroxyquin and hydrocortisone)

antifungal antibacterial anti-infiammatory antipruritie

Some styles don't leave much to the imagination. And don't provide much cover for common dermatoses, either. Just like plain topical steroids. If the lesion has become infected with fungi or bacteria, plain topical steroids are ordinarily not recommended as sole therapy Vioform-Hydrocortisone, on the other hand, provides the kind of comprehensive. therapy these dermatoses may require. It not only supplies the anti-inflammatory and antipruritle actions of hydrocortisone... but also adds the antibacterial and antifungal actions

This drug has been avaluated as cousibly effective for these indications. See brist prescribing information.

Another fact... the most widely prescribed form. 20 Gm cream





Mosquito Control Crisis

WASHINGTON-"Mosquito control today i

in a state of crisis," concludes a new re-

port from the National Academy of Sci-

Noting that in the past 30 years man-

kind has been almost completely depend-

ent on synthetic organic insecticides, the

report says that owing to serious environ-

mental problems, "effective chemical

weapons are vanishing and suitable re-

Yet, it points out, mosquito control con-

inues to be desperately needed, especial-

is in tropical areas where mosquito-truns-

mitted diseases, such as mularia, yellow

fever, filariasis, and dengue, are serious

Biologic methods are recommended

as an alternative to the fast-fading chem-

irsl controts. These "well-publicized but

undersupported" approaches to discuse

control are the most promising of any

methods now available, it snys, predicting

that "significant breakthroughs in biolog-

kal control can be expected within five

wars-given adequate support and sus-

Cholera Vaccine Fails GENEVA, SWITZERLAND-Cholera vaccina-

tion has been a faiture, and in the future it should not be required us n condition

of admission of any international traveler to a country, the World Health Assembly

The decision followed a report noting the failure of vaccination in preventing

the international spread of chotens. The accine, while offering partial protection, does not prevent people from becoming

carriers with practicalty no symptoms and

is therefore not effective as a defense against the importation of the vibrio, ne-

Renal Theory Challenged

MINANAPOLIS-The theory that the glidmendar fittration rate is drastically de-

treased in acute kidney failure was clinilaged by Indiana University School of

Medicine investigators, They reported on mulin-C14 studies indicating that the renal function disturbances are primarily from abuse leakiness and tubule olistraction.

lotheral kidney, after tempurary renal

aftery occlusion, it was found that the filtraion in surface glomeruli occurred at a

The investigators were George A. Tanet, Ph.D., and Samaisukh Sophasan, pre-

Plants Used in Drugs TISHKENT, U.S.S.R.-More than 100 me-

dinal preparations, most of them derived loan local plants, are manufactured by the Rate pharmaceutical enterprises here. Sevmi scientific institutions, grouped under bibekistan's Institute of Chemistry of

Vertable Matter, sludy the flora of the repon for pharmaceutical purposes and sky those to be produced industrially. The preparations are used in a wide

of diseases, including hypertension and cardiac Insufficiency, neuroses, and

binmations. They are, in addition to

comesic use, exported to 20 countries, in-duling Poland, Mongolia, India, and

Obese Africans Treated

One-Good results in the treatment of

obese Africans with fenfluramine were

reported at the ninth Acta Endocrino-

logica Congress here by Dr. Eric N.

Magoia of the Kenyalta National Hospi-

in a 24-week; crossover trial on 20 pa-

kale mean weight loss of patients on

Dr. Magole said there were minimal

effects and relatively few patients re-

ramine was 4.9 Kg as against 0.3

til Nairobi, Kenya.

a for those on placebo.

hear-normal rate, they sald.

doctoral fellow.

ained research."

declared hore.

cording to WHO.

for International Development.

placement chemients are scarce."

Continued from page 4 proximately two thirds of the intrapartum mortality will occur in this group. Thus, one third of infant deaths may escape pre-

Modern electronic monitoring includes both the invasive and the noninvasive techniques. The aoniavaeive technique uses an external tocodynamometer and a doppler recording instrument that provides a reasonably accurate assessment of the frequeacy of uterine contraction and the relation of the observed uterine contraction to changes in fetal heart rate. It is not an accurate assessment of the intensity of the uterine contraction. The invasive technique places, alongside the infant, a hollow catheter which is attached to a strain gauge, the catheter is fitled with normal saline, and one then accurately records, lo millimeters of mercury, the intensity of the uterine contractions. A scalp electrode or skin electrode is placed on the present-

ing part and records electronically the fetal heart rate.

The use of the internal method when oxytocin augmentation is required is partieutarly helpful. One may avoid increasing resting tonus and similarly inndequate oxytoein administration. Effective uterine contractions occur when the intrauterine pressure is above 50 mm. of mereury.

After total hysterectomy is there any need for annual Papanicolaou

If the hysterectomy was done for beaign indications, then the cost of routine pap smears outweighs the potential diagnostic yield when compared with the observed incideace of carcinoma of the vagina. The psychologic advantage of the patient returning for annual pap smears and pelvic examination as well as breast exam, howgood medical practice. If the patient has had in situ carcinoma

MEDICAL TRIBUNE

of the uterine cervix or dysplasia, and, of course, if there has been petvic malignancy, then routine six-month to annual pap smears are essential. The patients will come in following hysterectomy for their annual pap smear, but often are reluctant to come in for pelvic examination and breast exam if you tell them that the pap smear is no longer a requirement,

ever, makes the inclusion of this technique

How do current American perinatal mortality studies compare with those of other countries?

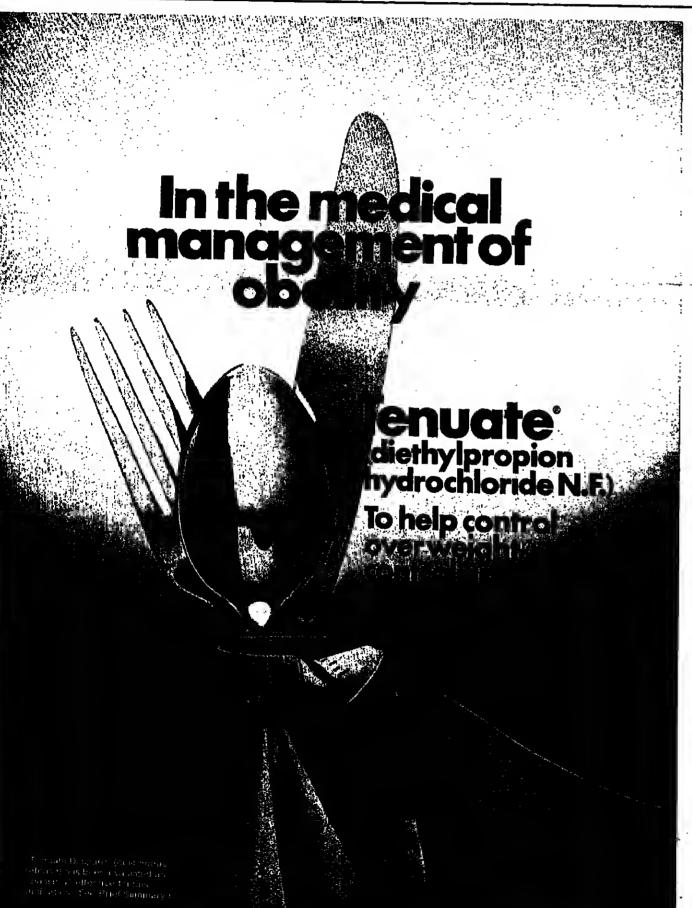
We are frequently assailed by the statement that American medicine is inferior medicine because our infant mortality rate ranks us 11th or even worse in the world.

The infant mortality rate (infant deaths per 1,000 tive births during the first year of life) is not a good statistical comparison for the following reasons: (1) definition of a live birth ta the past has varied from

country to country. In most states, any sign of tife is recorded as a live birth, regardless of infant weight or duration of gestation. (2) It is very difficult to compensate for underreporting of infant births and enrly infant deaths where a significant percentage of the births occur in the home. (3) A lending factor in infant mortality is prematurity. We know that prematurity is ii sociocconomic phenomenon related to rnce and general economic status. Thus Swedes in Sweden and Minnesota have the same low prematurity rate,

We are then comparing mortality rates and studies with varying criteria between countries of relatively stable genetic make up and a country of tremendous genetic inix and socioeconomic differences.

Yet it is apparent that a significant reduction in perinntal mortality remains to be achieved in this country. This reduction can certainly be accomplished by providing to each infant the optimum care during its terminal perinatal period. Availability of newborn expertise to each birth would certainly advance our relative position even with the above discrepancies,



Continuous rolonse) by the Neilonal Academy of Science - Neilonal Research Council and/or other information, FOA has clossified the indicetion for Tenneto Oospan as follows: "Possibly" offective: Overweight Finsi classification of lass-then-effective indication requires further

Contraindications: Concurrently with MAO inhibitors; in polionis hypersonelitie to his drug; in omollonally unstable patients succeptible to drug inbras. Werning: Usa with groot coulton in patients with severe beginning to the patients with severe beginning.

oplioptics en incrones in convulsive episode has been reported.

report described Fressure. One published report described T-wave changes in the ECS of a healthy young meta after ingestion of dishylpropion hydrochloride. Allergic phanomena reported include such conditions st reeh, uriteeria, ecchymosis, and erythema. Gestrointestinal ollects euch es dierrhea, co elipetion, nauspe, vomiting, and ebdominal

Tenuate' (diethylpropion hydrochloride N.F.) To help control overweight,

Tenuele (diethylpropion hydrochloride N.F.) is a useful edjunct to a lorist weight management program, especially when patientalal to respond to diet.

BRIEF SUMMARY

Indication: Overweight. Tenuele le indicated es on old le control overweight, perficularly: where it complicates the inselment or prog-nosis of cardiovasculor dispese, diebeles, or pregnancy. (Sog Warrales)

vascular discasso.

Do ant uso during first trimoster of pregnency unloss potential benefits outwelgh potential

unloss potential benefits outwagn potential risks.

Advorse Recotione: Rarroly sovers enough to require discentinuation of therepy, unpleased symptome with diethylpropion hydrochieride into been reported to occur in relatively lew incidence. As is characteristic of sympethaminolic agents, it may occessionally cause CNS clitects such as insemnia, nervousness, dizzinosa, anxioty, and jitterness, to contest, CNS daprossion has been reported. In a few collection on increase on contest, and contest on the contest of the contest of the contest on the contest of the contest on the contest of the contest of

nos boen roporlod.

Sympothomimelic cordiovascular nifecis
roporlod include onas such as inchycerdis,
precordiol peln, errhythmio, pelpilation, end
increasod blood pressure. One published elipetion, nausse, vomiting, and ebdominel diecomiori heve been reported. Specific reports on the hemelopoletic system include two sath of bone merrow depreesion, agrenulocytosis, and leukopenie. A vertiely of miecelleneous adverse reectione have been reported by physiciens. These include completing such as dry mouth, heedache, dysphee, menelmal upeel, heir lose, muscle pein, decreased libido, dysurie, and polyurie.

Convenience of two dosage terms: Dospare lebiels: One 75 mg. confinuous release lable.

Convenience of two dosage terms: Dospare labels: One 75 mg. continuous release labels daily, swellowed whole, in midmorning. 25 mg labels: One 25 mg. (ablet, three times delly, one hour bafore moste, and in midevening it desired to overcome night hunger. Use in children under 12 years of age is not recommended.

MERRELL-NATIONAL LABORATORIES Division of Richardson-Merrell Inc. Cincinnali, Ohlo 45215

control appetite

Merrell

Cockroach Is Linked to Allergic Illnesses

NEW YORK-In cockroneh-infested homes, sensitivity to the insect may be a factor in causing altergic illnesses, and the inhulation of house dust may be one of the rottes by which the sensitivity is produced, according to Washington investigatora.

They detailed a study of 95 children of egges' Board on Science and Technology low socioceonomic status seen at the pediatric clinic of Freedmen's Hospital and District of Columbia General Hospital. Seventy of the children had nilergic illiesses-42 had bronchial asthmu, 22 irllergie rhinitis, and six atopic dermatitis. The 25 control subjects had no history of allergic disenses.

All the children were skin-tested with cockroach extract, and the 70 ullergic paicuts were also skin-tested with concentrated house dust.

Dust Might Include Particlas

"In honics where there is a high prevalence of cockronches, It is logical to assume that dust might include breakdown products of cockroaches as well," Dr. Niek Chehreh, who presented the report, told the Section on Allergy at the annual convention of the American Medical Association.

Of the 70 allergic patients, 30 per eent had positive reactions to the cockroach extract, whereas only 4 per cent of the nonallergic children reacted positively. There were positive reactions in 29 per cent of the bronchiat asthmatics, 27 per cent of the allergic rhinitie patients, and 50 per cent of those with alopic dermatitis. The high percentage in the last entegory, said Dr. Chehreh, may have been due to the small number of patients

When tested with concentrated house dust, 42 per cent of the allergic patients guve positive reactions, as did 41 per cent of the bronehial asthmatics, 55 per cent of those with allergic rhinitis, and 33 per cent of the patients with atopic dermatitis.

Among those giving positive reactions to house dust, 49 per cent were also positive to cockroach extract. Of those positive to house dust, 53 per cent of the bronchiel asthmatics, 33 per cent of the nilergic rhinitis patients, and 50 per cent of those with atopic dermatitis also gave posilive renctions to cockroach extract.

Inhalation May Be One Route

"Although this finding is not conclusive for inhalation allergens," Dr. Chehreh commented, "it does suggest, however, that inhalation may be one of the routes by which cockroach allergens enter the

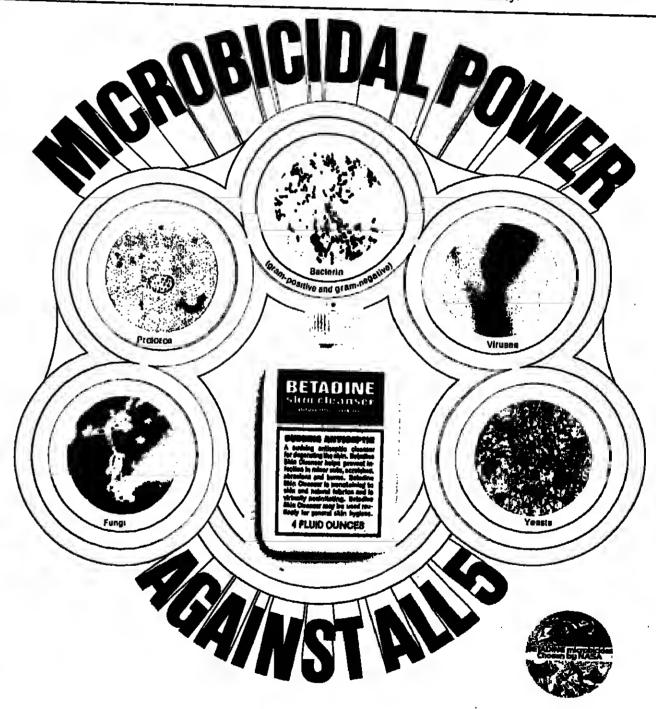
Coauthors were Carvason E. Griffith and Dr. Roland B. Scott.

1 of 3 Pakistani Children Shows Signs of Goiter

Medical Tribune World Service

KARACHI, PAKISTAN-One child in three among 2,000 of schoolgoing age examined here showed signs of goiter, according to a survey conducted by Jinnah Postgraduate Medical Center. The majority of casea were not receiving treatment, it was

There are indicationa that the incidence in children is still higher in the apprountry. particularly in Multan, Chitral, Hazara, and Gilgit. A majority of villagera are affected by the disease, according to reports. The disease is caused by iodine deficiency.



DECISIVELY MICROSICIDAL AGAINST ALL 5 MAJOR CLASSES OF PATHOGENS BETADINE Skin Cleanser is e richly

lathering liquid cleanser that kills bactena (gram-positive end gramnegative), lungi, viruses, prolozoa and yeasis.

EFFECTIVE DECERMING WITH EACH APPLICATION **BETADINE Skin Cleenser does not** require repeated applications to echieve microbicidal elfect

WITH COMMON PATHOGENS. including Staph, aureus ... helps prevent recurrence of ecute inflemmetory skin infections ... in

CONVENIENT AND EASY TO USE FOR GENERAL SKIN HYGIENE rich, golden lather is nonetaining to skin end naturel labrics.

pyodermes, serves es a velueble

therepy.

adjunct to systemic entimicroblet

DEGERMS THE SKIN OF PATIENTS HELPS PREVENT THE SPREAD OF INFECTION IN ACNE PIMPLES Ihrough ite microbicidel action. Aveileble in 4 fl. oz. plastic bolltas. In the rare instance of local irritation or sensitivity, discontinue use in the individual.

BETADINE Skin Cleanser

E COPYDIGHT 1679, 344 PROGUE FREGERICE COMPENY; HORMALD, CHIN, DEBSI

Purdue Frederick

If there's good reason to prescribe for psychic tension...

tension and anxiety continue to produce

distressing somatic symptoms

Prompt action is a good reason to consider Valium (diazepam)



When your patient's somatic complaints are associated with tension and anxiety and you have tried counseling and other supportive measures alone, you may decide to prescribe psychotherapeutic medication. If you do, the question remains: which one?

Valium (diazepam) is one to consider closely. One that works promptly as an adjunct to continued supportive measures. One that generally produces significant improvement within the first few days of therapy, although some patients may require more time for a clear-cut response

Prompt action. One good reason to consider Valium.

And should you choose to prescribe Valium, you should also keep this information in mind. Valium is usually well tolerated, the most common side effects reported have been drowsiness, fatigue and ataxia. Patients taking Valium should be cautioned against operating dangerous machinery or driving. Therapy with Valium should normally be continued until the patient's psychic tension symptoms have been reduced to tolerable levels.

Please turn page for a summary of product information.



2-mg, 5-mg, 10-mg tablets

Effectiveness

The efficacy of Valium (diazepam) has been proven in clinical studies and in extensive clinical use. It can relieve psychic tension and its somatic symptoms in patients who overreact to stress and in psychoneurotic patients.

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Tension and anxiety states, somatic complaints which are concomitants of emotional factors; psychoneurotic states manifested by tension, anxiety, apprehension, fatigue, depressive symptoms or agitation; symptomatic relief of acute agitation, tremor, delirium tremens and hallucinosis due to acute alcohol withdrawal; adjunctively in skeletal muscle spasm due to reflex spasm to local pathology, spasticity caused by upper motor neuron disorders, athetosis, stiff-man syndrome, convulsive disorders (not for sole therapy).

Contraindicated: Known hypersensitivity to the drug. Children under 6 months of age. Acute narrow angle glaucoma; may be used in patients with open angle glaucoma who are receiving appropriate therapy.

Warnings: Not of value in psychotic patients. Caution against hazardous occupations requiring complete mental alertness. When used adjunctively in convulsive disorders, possibility of increase in frequency and/or severity of grand mal seizures may require increased dosage of standard anticonvulsant medication; abrupt withdrawal may be associated with temporary increase in frequency and/or

Dependable response

The psychotherapeutic effect of Valium (diazepam), characterized by symptomatic relief of tension and anxiety, is generally reliable and predictable.

severity of seizures. Advise against simultaneous ingestion of alcohol and other CNS depressants. Withdrawal symptoms (similar to those with barbiturates and alcohol) have occurred following abrupt discontinuance (convulsions, tremor, abdominal and muscle cramps, vomiting and sweating). Keep addiction-prone individuals under careful surveillance because of their predisposition to habituation and dependence. In pregnancy, lactation or women of child bearing age, weigh potential benefit against possible hazard.

Precautions: If combined with other psychotropics or anticonvulsants, consider carefully pharmacology of agents employed; drugs such as phenothiazines, narcotics, barbiturates, MAO inhibitors and other antidepressants may potentiate its action. Usual precautions indicated in patients severely depressed, or with latent depression, or with suicidal tendencies. Observe usual precautions in impaired renal or hepatic function. Limit dosage to smallest effective amount in elderly and debilitated to preclude ataxia or oversedation.

Side Effects: Drowsiness, confusion, diplopia, hypotension, changes in libido, nausea, fatigue, depression, dysarthria, jaundice, skin rash, ataxia, constipation, headache, incontinence, changes in

Titratable dosage

With Valium (diazepam), adjustments in dosage can alter the clinical response. This titratability enables you to tailor your therapy for maximum efficiency. There are three convenient tablet strengthsto choose from: 2 mg, 5 mg and 10 mg.

salivation, slurred speech, tremor, veiligo, urinary retention, blurred vision. Paradoxical reactions such as acute hyperexcited states, anxiety, hallucinations, increased muscle spasticity, insomnia, rage, sleep disturbances, stimulation have been reported; should these occur, discontinue drug. Isolated reports of neutropenia, jaundice; periodic blood counts and liver function tests advisable during long-term therapy.

Dosage: Individualize for maximum beneficial effect. Adults: Tension, anxiety and psychoneurotic states. 2 to 10 mg b.i.d. to q.i.d.; alcoholism, 10 mg t.i.d. or q.i.d. in first 24 hours, then 5 mg t.i.d. or q.i.d. as needed; adjunctively in skeletal muscle spasm, 2 to 10 mg t.i.d. or q.i.d.; adjunctively in convulsive disorders, 2 to 10 mg b.i.d. to q.i.d. Geriatric or debilitated patients: 2 to 21/2 mg, 1 or 2 times daily initially, increasing as needed and tolerated. (See Precautions.) Children: 1 to 21/2 mg t.i.d. or q.i.d. initially, increasing as needed and tolerated (not for use under 6 months).

Supplied: Valium® (diazepam) Tablets, 2 mg, 5 mg and 10 mg; bottles of 100 and 500. All strengths also available in Tel-E-Dose® packages of 1000.

Physicians Are Blamed for 'People Pollution' in New Zealand, told the conference:

AUCKLAND, NEW ZEALANO-A scientist and a former cabinet minister in the New Zealand Government have blamed doclors for "people pollution."

Speaking to the Medical Association of New Zealand, former Miniater for the Enstronment Duacan MacInlyre talil the doctors "Whether you like it or not, one of the problems of environmental control shich will be duniped in your lap is thut of suthanasis. Il is your duty to mivisc us In how to control the number of people." Mr. MacIntyre said the world populaioo explosion, which young people ure

siling the "ultimate pollution," presents many problems for the medical profession. He asserted that physicians are responsible for much of it, with the millinns of fives saved by drugs and the extension of men's lives by money and skill.

The scientist, Ian L. Baumgart, who staistant director-general of the Department of Scientific and Industrial Research

HL-AAntigens Are Matched,

RESEARCH

Platelets Rise

Medical Tributte World Service

PARIS-HL-A antigens are the most im portant platelet antigens for transfusion purposes, and HI.-A-matched platelet transfusions from unrelated donners can effectively support patients who have become refrectory to random platelet transfusions, Dr. Hans Peter Libbrimann told the annual meeting here of the European Organization on Research on Treatment

ABO incompatibility appeared to have so effect on the pustiransfusion platelet icrement, said Dr. Lahrmann, currently athe National Cancer Institute, Itethesda

He reported that 15 thrombucytopenic patients who had become attriumunized a nadom platelet transfusions had been apported, some for over a year, with HLA-matched platelets. Name of the pudest, whose thrombocylopenia was assudated with aplastic anemili, leukemin, or hemotherapy for various malignancies, had died of hemorrhage.

No Rafractoriness Reported

Nine patients are alive at present and stinue to be supported with pialelets hom the HL-A-compatible unrelated beson," he said. "No refractoriness lo here donors' plateicts has developed."

Plaielet transfusiona were given accord-Me to clinical indications, and an attempt is many different HL-A-compatible boors as possible. ABO incompatibility

The results showed distinct differences the positranafusion platelet increment hal correlated to the closeness of the match, HL-A-identical matches produced postiransfusion platelel increment that were normal; compatible matches gave intermediate increments and by definition, mismatches gave essentially no platelet increments in these alloamunized patients.

Dr. Lohrmann noted that there has been controversy in the literature as to whether or not the red blood cell antigens A and B are present on platelets.

Our observations lend support to the could be co

The question of specific platelet anti-less was brought up in the question and-sister session following Dr. Lohrmann's hot Dr. Loumann responded that hie such antigens are known to exist, by are the same in 95 per cent of the loyallon and do not play a major role in platelet transfusions.

to age . . . and to make a bigger impact oo "The real enuse of the problems we are facing is not, fundamentally, advancing

technology or rising standards of living or willful destruction of natural resources. Mr. Baumgari said scientists were sick of being blamed for creating problems "The fundamental cause is people, more and more of them brought into the world that were caused primarily by the everincreasing world population, "for which hy the medical profession, kept alive to you medical people are primarily responhreed by the medical profession, kepi nlive

Serum Calcitonin Determination Used To Detect Carcinoma of the Thyroid

Medical Tribune World Service

Osno-Serum enleitonin determination is the method of choice for screening, diagnosing, and follow-up in medullary carcinuma of the thyroid, n Swedish investigator muintains

Dr. Margareta Telenius, of the University of Land, tald the ninth Acta Endocrinnlogica Congress here that the calcium infusion test mny give additional support to the diagnosis and surgery in horderline cases.

Despite the malignant character of these carcinoma cells, she said, they still retain the capability of calcitonin secretion as a

She reported on studies of 46 members of three separate families with Sipple's syndrome. As coatrols, she used healthy children and adults without evidence of disordered thyroid or calcium metabolism. Serum calcitonin was determined by specific radioimmunoassay.

Eight of the 46 patients were found to have basal calcitonin levels ranging from t.6-27.3 nanograms/ml. (normal: <2 nanograms/ml.), and there was a rough correlation between calcitonin levels and tumor mass. Four of the eight had their carcinoma diagnoses verified by surgery and histopathology, and two by positive cytology from aspiration biopsy.



being administered through a davice developed at University Hospitals of Cleveland. Tha CPAP techniqua keeps the infant's air sacs open despito a lack of surfactant, respiratory defect scen in about 10 per cent of prematures.



caring better for his basic needs, less confused in his thinking; no great accomplishment for most people, but a significant advance for the patient with cerebral arteriosclerosis*

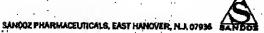
SUBLINGUAL TABLETS containing 0.167 mg. dihydroergocomine methanesulfonate, 0.167 mg. dihydroergocristine methanesulfonate, and 0.167 mg. dihydroergokryptine methanesulfonate

helps patients with cerebral arteriosclerosis do little things better

The usual dosage is tour to six sublingual tablets daily. The patient's improvement with Hydergine is usually demonstrated in tour to six weeks. Some nasat stuffiness due to adrenergic blockade, transient nausea or gastric disturbances hava been reported with high dosagas.

*Indicatione: Based on a review of this drug by the National Academy of Sciences— National Research Council and/or other Information, FDA has classified the Indication as follows: "Possibly" elfectiva: The Ireatment of cerebral arteriosclerosis and dizziness,

mood changes, nocturnal cramps, and paresthesias in the aged. Final classification of the lass-than-effective indications raquires turther investigation.









illness by about 80 per cent.

Dr. Coppen: The answer to that is linked

with the natural history of depression

considered as a disease. There is first a

period which, if untrented, lasts several

months. An interval occurs, and then

along comes a second episode, again last-

ing several months. We know from epi-

demiological studies by Angst and other

that the free interval tends to shorten with

each attack. Thus, there might be a five-

year interval between the first episode and

the second, but between the second and

the third the gap may narrow to three

years, and so on. By the time the patent

has had three or four attacks, we face not

only the morbidity itself but also the ques-

tion of recurrence of intervals which are

Dr. Coppens in a way, it is all one prob-

lem. We can get to the point where we

have difficulty in deciding whether an en-

sode is new or part of the previous event. I always try to camphasize that we are

denling with n long-standing recurred

condition, and we must look at treatment

now of only a few months.

M.T.: So there ere two problems?

not also really therapy?

Lithium Use for Depression

ST. MORITZ, SWITZERLAND-7'he trent-

ment of depression has been transformed

by the hirodiction of a range of ruccess-

ful drugs, speakers at an international

symposium agreed here. In an interview

with Menical Trikune a British psychia-

trist-Dr. Alec Coppen, of the Medical Re-

search Council-mode o plea for an reen

wider approach to depression, based on

prophylaris with lithium. Work on there

fues in the United Kingdom has demon-

strated that it can bring about a nowked

MERICAL TRIBUNE: Dr. Coppen, society

is becoming increasingly aware that de-

pression is a health problem on o scale

comparable to diabetes or leukemin. How

Dr. Coppeo: The ndvent of the Iricyclic

antidepressonts has meant that we can now

treat depression successfully. However,

my view is that we should be working

much further back along the line and

seeking to prevent depressive episodes.

M.T.: You refer to lithlum therapy?

far have we odvanced in therapy?

fall in morbidity, Dr. Coppen declared,

Spark timing is expressed as advance.

In reality, "the advance" is the degree to

which spark plug firing is advanced, so

that the spark occurs earlier in relation to

the pistons' combustion in each cylinder.

"Retard" is the reverse, with the spark fir-

ing later in relation to piston position.

floth then express the relationship of spork

llring to compression or piston position.

built after the 1969 ignition conversion; a

vacuum increase produces retardation of

spark in contrast to the older system of

Like all newer cars, the test auto was

Vednesday, August 8, 1973

hased on lithium are applied properly, we could hope to reduce the morbidity of this Gasoline shortage? Whether real or engioned, the "shortage" has further inmessed gasoline prices. The facts behind M.T.: You spenk of prophylaxis, is this the shortage rival Watergate and the opinions are as numerous, but one fact is "perfeely clear"-Il costs more to drive your

> Many tips have been ntferred on how to save gas. In one gasoline company ad i was recommended you overinllate tires. The company, of course, also sells tires! At the core of gasoline consumption. however, is engine combustion efficiency this is the single most significant factor. What can be done to improve this? With modern electronic testing equipment in the hands of an expert, it is possible an automobile can be made more ellicient and

Signdard Tone-up 182.1 miles 14.2 gal. 12.8 mpg	Special Tune-up 214.2 miles 15.3 gal. 14 mpg	Follow-np 188.1 miles 13.5 gal. 13 mpg	spark p gnp, etc. By pair huretor's r
10 per o	ent increase in		advance, i

Test car: Two-year-old, fnur-dour sedan automatic transmission, full power. she air conditioning.

Test mileage: Professional travel hospital, office, calls, and home.

Follow-up: A check on the car's ability to bold special tune and, to insure no diverfactor, a random check made after

Ten per cent increased efficiency with ture-up or, but another way, 1t) per cent savings on gasoline bills. Impressive? Not If the car was "out of tune," but this car was in tuge, it was to manufacturers' standards and was "in tune" when adjustmenis were made.

Illegal Adjustmonts?

What was done might be in violation of enain state emissium standards, although no auto pollution devices were altered or removed. Quite simply, adjustment of airgas mixturo with spark advance for maximum efficiency was carried out. This may allow slightly more hydrocarbon loss, but

Occupational Dermatitis Appears to Be Increasing After Decline in 1950s

Medical Tribune World Service

VANCOLIVER, B.C.-Industrial derniatitis, after a period of decline in the 1950s, is the rise again, a symposium nn Rebiblication of the Industrially Disabled was told here.

The increase is taking place at a time then other industrial diseases and genal illnesses are declining, said Dr. Desmond Burrows, consultant dermatologist lor Royal Victoria Hospital, Helfast.

Occupational dermatitis ranges from 29 et cent of all industrial disease cases in West Germany to 78 per cent in Great

While the oumber of cases of industhe dermalitis is small compared with histrial in Juries," Dr. Burrows observed, 2 person will have five times more absace from work with occupational skin disease than a worker with injury."

he added that such allments account for a decrease in working capacity of 7.3 tent on the average.

Coal mining and textiles account for most dermailtis cases in West Germany. This the distributive trades and textiles account to account for most United Kingdom cases, Or Burrows said.

de strested that knowledge of the pateling to treat what appears to be an in-initial deimaidis. Corone, nickel, and how rooms are skamples of substances and are repetially likely to sensitize, he



mum efficiency of combustion that can be read directly on electronic equipment.

vacuum udvance. To achieve maximum Much more can often be done-and the efficiency, adjustment with electronic result can be even more dynamic. On equipment was done to give maximum many automobiles the carburetor jets may combustion. As stated, all other factors be changed, particularly if the locality were up to the manufacturers' standards adds any atmospheric factors not planned -spark plugs, vnlvc ndjustment, spark for in manufacture. The use of cold spark plugs and even changes in gap con affect By painstaking adjustment of the carmileage-agnio this must be done in conhurctor's mixture with adjustment of spark sideration of engine design and by an advance, it was possible to nehieve maxi-

12,000 miles per year 66 gal. savings per year \$27.2 savings @ 42¢ per gal.

An improvement of 10 per cent is a minimum to be expected—as the test ear had a highly tuned overhead cam aluminum engine. If the expert tuning was done on the typical Detroit large-displacement V-8, a savings up to 20 per ecot could be expected. The problem, of course, is to find the expert who can do the job properly for you.

Hospital Provides No Escape From School In a school on the pediatrics wing of West Virginia University Hospital, volunteer tutor Ano Morgan assists patients atudying arithmetic. An elemeotary school teacher for four years, Mary Ellen Smith (at board) conducts classes for patients reoging in age from prekindergarteo to junior high.

Dr. Coppeo: Yes. If prophylactic methods

by tension headache

Let Florinal help release the patient from the aching, pressing, painfully tight feeling of tension headache. Its analgesic components help relieve pain while its sedative component halps relax the patient.

Each tablet or capsule contains: Sandoptal* (butalbital) (Warning: May be habit forming) 50 mg.; caffelne, U.S.P., 40 mg.; aspirin, U.S.P., 200 mg.) phenacetin, U.S.P., 130 mg.

Contraindications: Hypersenaltivity to any of the components. Precautions: Due to presence of a barbilurate, may be habil forming. Excassiva or prolonged use should be stolded.

Side Effects: In rere instances, drowsiness, neusea, consilipation, dizziness, and skin rash may occur. Adult Dosage: One to two tablata or capsules, repeated if necessary up to 6 per day, or as directed by physician. Before prescribing, see package insert. for full product information. in this perspective.
M.T.: In terms of results, how do the conventional and preventive treatments com-Dr. Coppens Let me give you an example We have been following up patients who have had three or more attacks of depression and were being treated by conventional methods in different centers in the United Kingdom. We found that they were spending, on average, nearly 50 per cent of their time with an episode which is o very unsatisfactory state of affair.

lithium, we could expect to bring this down to about 9 per cent. M.T.: The reduction you quote is base

With o prophylactic or stobilizer such as

on your studies? Dr. Coppen: Yes. Wo have a lithium click in our unit, and similar work is also being done at other units in the U.K. The pa tlents are seen every six weeks, and their elluical state, including blood plasms levels of lithium, is monitored.

M.T. Do you hero many backsliders? Dr. Coppens Our onswer to this is to go the patients interested in their bloo plasma levels, to get them to see it all as a cooperative effort.

M.T.: What is the Inngest period any your petients has been on libium as

Dr. Coppen: I have been treating one pa tient for five and a holf years. All the data suggest that certain patients ore and will be increasingly vulnerable to a recurrence of depression for the rest of their lives Our studies have shown that when they are taken off lithlum and put on placebothey will often relanse.

M.T. So they have to be maintained of therapy rather like hyperlensives or dis-

Dr. Coppen: That is the position. It is a long-term task, io which the patient biniielf must become engaged

9 of 10 U.S. Paraplegics Held Badly Rehabilitated

Medical Tribuna World Service

VANCOUVER, B.C.—"Nice of i 0 paraplegic patients in the United States are not being rehabilitated vocationally according to standard indices of record," said Ellis Relda, executive director of Rebabilitation International, a federation of rebability tion ageocies in 55 countries.

Since the United States does not keep separata vocational rehabilitation data of patients with spinal cord iojuries, be sald, It is impossible to know exactly how many paraplegies there are. Recent estimates put the number at about 125,000 with between 5,000 and 10,000 new cases occurring each year, he said.



like getting up and around.

Supplied: SENOKOT Tablets (small easy-to-swallow) - Bottles of 50 and 100. SENOKOT Granules (delicious, cocoaflavored)-4, 8 and 16 ounce (1 lb.) canisters.

Purdue Frederick

Monkey therapists, yet

Four male monkeys were first driven

batty by heing kept in total isolation for

sis months after their birth, then were

brought to "virtually complete recovery"

by being permitted contact with immature

females, three months younger than the

males, the University of Wisconsin reports.

periment refer to these female monkeys as

"therapists" ttheir quotes, incidentally),

although, as far as we can make out, the

fadies have never been admitted to a clini-

cal program or even begun a training

analysis. Their chief claim to credentials

for therapeutic status seems to be that they

are young, and we must assume that the

youth bit is sprending throughout the

At any rate, the release says they were

"too young to be aggressive as peers, or

to show behavior more complex than

clinging and simple playing." It also notes

that in earlier experiments, attempts to

rehabilitate isolates by exposing them to

In the treatment plan, the isolate and

his teeny-hopper therapist interacted as n

pair for two hours n day, three times a

week-there was also group therapy. The

first response of the therapists to the

troubled isolates was just to cling to them

in a very accepting way. After about a

week, the males returned the clinging-and

there's no need for all that giggling in tho

Now you ean't tell the isolates from the

therapists, but the patients, says the study,

"cannot be considered completely normal

The moral of the experiment seems to

be that no matter what happens to you,

"the potential for recovery remains as long

as an appropriately designed teaching

If we get word of a human experiment

method is available to tap this potential."

along similar lines, we'll report it.

until they become old enough to mate."

aormal peers had not worked.

back row.

entire animal kingdom.

The scientists who conducted the ex-

TRIBUNE SPORTS REPORT

Ballplayer Gets Out of Slump Thanks to Hypnosis Session

Continued from page 1

overage has jumped from .258 to .321, making him one of the top hitters in the American League. "I went out to see the Orioles play last night," Dr. Conn told MEDICAL TRIBUNE in an exclusive interview. "You should see him hit that ball." Meanwhile the Baltimore News American aports editor is calling for Dr. Conn to get the "MVP" award—"most valuable psy-

A Hypnosis Fan

Are you a bascball fan? MEOICAL Taia-UNE asked Dr. Conn. "No, I'm not a fan of baseball. I'm a fan of hypnosis," said Dr. Conn. "Because this is a beautiful demonstration of what hypnosis is all about. Many physicians forget that hypnosia is one of the oldest forms of treatment known to man. Greek medical records show it was being practiced 500 years n.c. in the temple of Aesculapius. It was also practiced in the ancient healing temples

Dr. Conn, a professor emeritus at Johns Hopkins School of Medicine who still lectures there on hypnosis, is one of the most axpert practitioners of hypnosia in the nation. He told MEOICAL TRINUNE, because beautiful example of how hypnosis works. of its physician readers, how Blair becume his patient and explained why hypnosis became effective in Biair's case. Dr. Conn. a past president of the Society for Clinical and Experimental Hypnosis, was awarded n gold medal for his contributions to hypnosis in 1970,

How Cana Arose

Blair was an exceptionally fine Oklahome nthlete, a former Golden Gloves champion, well coordinated and coadjtioned. However, three years ago he was struck by a "bean ball" thrown by Ken Tatum, of the California Angels. The hard-thrown ball struck him in the face and fractured his nose. After that, Blair became nervous at bat. If a ball cumo close tors said, "That this is a pediatric problem to him, be ducked. He worried about is avident from many studies, not least that

Medical Tribune World Service

CANBERRA-The Australian Government

plons to conduct a thorough inquiry into

the promotion and control of boxing. It

will also consider the establishment of a

The Federal Minister for Recreation,

Frank Stewart, announced the inquiry

after a call by the Australian Medical

Association for stricter controls to safe-

He sald tha government inquiry will

An interdepartmental committee will

range over all aspects of the sport, includ-

· Controls already existing in amateur

The possible spheres of influence of a

boxing commission and its jurisdiction

over participants, trainers, referees, and

The provision of proper medical super-

• The provision of adequate insurance

and welfare services for boxers, where

• The legal responsibility of promoters

Any special provision for televised coo-

Medical Tribune World Service

SYDNBY, AUSTRALIA-The Federal Couocil-

of the Australian Medical Association has

called for strict controls on amateur and

and others in contracts with boxers,

judges and over stadiums and training

Federal boxing commission.

guard the health of boxers.

and professional boxing.

• The justification of ex

necessary.

ing promotion and telecasting.

him to "bail out"-drop to the ground. His heart would pound and he would feel himself go slack.

Blair's batting average slumped. For two seasons he tried to pull himself together, but his nervousness-nnd his slump-continued. He was slowly being driven out of bascball by fear,

At this point a Baltimore News-Amer-Icau sports writer, Chan Keith, who had become a friend of Blair's, sought out that paper's medical writer, Joann Rogers. He asked who could treat fear. Months carlier she had written about Dr. Conn's work in hypnosis, and she now recommended him.

Keith suggested to Blair that he see Dr. Conn. At that point, June 15, Blair hnd scored only 38 hits and one home run, giving him an average of .258-and the season was one-third over. Blair, despernte, said, "I'll try nnything."

Dr. Conn described the treatment for MEDICAL THEAUNE because "hypnosis isn't well understood and in recent months rescarch psychologists have been challenging it, calling it mere role playing-like giving nn actor a role to play and coaching him in it. Actually, the Blair case is a

Rola Playing Comes First

"Role playing is indeed the first stage. We all do this when we go to the thenter and are drawn to some character and begin to feel and react with him through our identification.

"The second stage is regression. In this stage the patient moves hack to childhood, to a secure and safa relationship in which

he feels protected by a loving porent. And ball as a boy and how successfully be moved up through the under the unde ing in which the fusing of reality and fantasy helps the patient meet the problem that has been defeating him."

In his office Dr. Conn hud Blair reinx and gradually recall his enricest days playing in the vacunt fields of Oklahuma, "When we renched the regression stage, I told him, 'Now suppose there was a hunch of kids pluying hall in the field. You go up up and usk if you can pluy too. Now remember you're a hig-league player- and you have nothing to fear. Go take your turn at hat. See the pitcher warm up, Nohody can really hart you. Your hady will take care of you. It's in beautiful condition. Your instincts will move you out of

the way of a fast bull." Dr. Conn continued, "The third step was that of reality testing, meeting a change from uormnl-the process in which fantusy and reality become fused. In this phase I emphasized that his instincts will take care of him, protect him, move him out of the way, that he is n fine, experienced bullplayer and athlete.

"But now, instead of a kid pitching to him, we move up in fantasy to the father of one of these kids he's been ploying with-n man who is a bush-lengue pitcher himself. And Blair feels snfe and protected against danger-and he can hit. So we let him pitch -and Blair can remember going through the bush lengues and the fun he had there and hitting the ball out of the park.

"And all that gives him back his confidence, his way of feeling about himself. I tell him you don't have to be afraid. Just keep your eye on the hall. Your holly will take care of you. You're ready for

Blair had only one session with Dr. Cono. He returned immediately to play. At Dr. Conn's suggestion, he sat down before each game, looked at a spot on the was in a slump, and a psychologist was bull, counted to 20, closed his eyes, and hired to help overcome it. That effort by

moved up through the various teams to lengues. He began to hit.

However, the real test came when is game in Boston late la June, a factivi came straight at him. At the last split se ond he jumped aside. Blair later said, B. fore that, in a situation like that my bear would race so fast I could bardly catches breath. Anytime over the last three year when a ball would get that close, I would just go limp hecause it scared me so led"

Was "Totally Raisxed"

"But ufter that brush-back pitch, I for nothing. I was totally relaxed. And he drave the next pitch into a solid hit.

After that he got hit after hit, driving his nvernge up 100 points in a matter of aire weeks. Ithir now says, "The whole thing is unbelievable. It's really incredible F told Chan Keith, "Every now and that have to pinch myself to make myself relize it's nll not just n dream."

Dr. Conn, too, is delighted. He will MEDICAL THIRUNE, "When I first head nbout his problem, I planted several sesions-but we professionals have to fee reality too. After that first session, the called me and said he didn't think he needed to keep the next date. I said, This ull right, call me when you need me, Wel he's going great guns, and that one wake was all he needed to overcome three year of u fear that was destroying him."

Blair faithfully follows Dr. Com's vice to sit down before each game and recall his successful experiences as a coning-up hallpluyer, "What this proves," un Dr. Conn, "is what can be done with hypnosis with selected patients-andit shows that there is no such thing as held?

One of the few other instances of the repurted use of hypposis with athless of curred with the Browns in 1950. Thatless then recalled all the fuo he had playing over, opporently did not succeed.

Cholesterol Assays Are Recommended for All Children

Boxing Is Down for the Count

With Physicians in Australia

Importance" to identify the person at risk of atheroselerotte disense, the investignwhether he could duck in time. Pitchers began to pitch balla close to him, causing con contact casualties in Vicinna, it was

professional boxing because of the dangers

of serious injury, particularly brain dam-

Action by the council followed injuries

to several boxers in bouts at Sydney sports

clubs and the deoth of a 23-year-old dock

Medical association officials sald that

Tha council made the call for tighter

control after receiving a report and recom-

mendations on boxing prepared at its request by the Australian Sports Medicine

Tha council proposed the following:

Trainers should be accredited after

courses of instruction and registered each

year. In certain circumstances they should

• Matchmaking should be subject to

Referees should receive adequate Irain-

More points should be awarded for

A doctor should be present and be able

The council also recommended that

boxers be barred from training or fighting

for at least one month after suffering injury or knockdown, and that medical

essments of fitness for boxing should

to stop a bout if he thinks it advisable,

stringent provisions and supervision.

Minimum standards should be set for

the council's views will be ratifled as the

worker after an amateur motch.

policy of the association.

be liable to deregistration,

ing concerning signs of injury.

defensive and evasive work.

be made frequently.

centers.

shown that some degree of coronary artery one to four years, 214 mg./100 mliffight disense-that is, athoroma-way present in nine years, 222 mg./100 ml.; 10-14 years, 45 per cent of cases studied and this in- 227 mg./100 mil. and 15-20 years, 28 vnlycment was judged to be severe in 5 mg./100 ml. por cent-a high proportion considering that the meen age was 22 years."

The Toronto study showed a significant rise in mean scram choicelerni from birth to five years of ago and then a leveling off. There were no signifiennt differences by sex. The levels were determined for 2,639 children. After exclusion for secondary causes of hyperilpoproteinemia, a total of 1,232 were left in the atudy.

in those with levels two standard devictions above the mean, the assaya were repeated three times in the fosting state, in additioo to aasays of scrum trigiyeeride levels and a lipoprotein electrophoresis, before the diagnosis was confirmed.

The study showed tha following upper limits of normal lovels for various age groups zero to three months, 175 mg./ 100

A cartoon Medical Trubune ran receatly prompted Lawrence Ray Bower, In illsenssinn, Dr. Pearse said that my D.O., of Silver Springs, Md., to return n recommendation to the Ministry of Health corrected version ulung with a nate saying. on universal screening of children should "I think the lettering on the door should awnit further study. "It may be a good thing and it may not be," he said. "Well read D.O. and not M.D." have to wait till we know what effect serun Fair is fair, so hero is Dr. Bower's chnicaterol has ou allieroma."

Important in Soma Families

In an interview, Dr. Rose, a cardiologis, commented that cholesteroi level tests are Important in any family with a history nf premuture atherosclerosis, which she defined as that occurring before the age

She noted the sorum cholesterol level test is simple and inexpensive, costing about 80 eents. "We think this is good preventive cardiology and hope that pediaticiaos and family physicians will become

osiorakia

International Symposium on Elecirio Response Audiometry, Bordeous, France
International Atomic Energy Agency, Symposium on Radiotiminnossay and Related Procedures
in Clinical Medicino and Rosearch, Istanbul, Turkey
International Congress on Cybernetics, Namor, Belgium
Dutch Orthopodie Association International Congress on the
Knee Joint, Rotterdam
Balkan Medical Union Meeting,
Ankays

European Symposium on the Impact of Ecological Factors on
Paripheral Vateniar Disease,
Herelia, Israel

Sept. 16-21 ... | utermational Symposium on Carparatiro Leukenia Reserva
l'ogoga and IseShina, Ises
Sept. 17-23 ... International Society of General
Peacitee, Igis International on the International Symposium of the Regional Treatment of Tunors Soint-Vincent, italy Modical and Chirurgical Fucily of the State of Maryland, Made City ...Ontario Medical Associatios and Canadian Anesthelias, Santa Ont.

Acupuncture's No Mystery, Pain Expert Tells A.M.A.

Medical Tribune Report

NEW YORK-There has been altogether too much mystery surrounding acupuncture. a noted pain expert told un neupuncture symposium, the first sponsored by the American Medical Association. "Every culture on every continent has

developed its own type of aeupuncture," said Ronald Melzack, Ph.D., Professor of Psychology at McGill University, Montreal. He cited searifleation, trepanation, and cupping as other pain-relieving techniques that may possibly work by ways similar to acupuncture.

There are three features in acupuncture pain treatment and "not one of them is a mystery to use," he commented. These include hyperstimulation analgesia, the fact that stimulation of a point may affect distant area, and the fact that acupuncture effects may persist even after needles are withdrawn.

Dr. Melzack, who is coauthor of the gate control theory of pain, said that a first step in explaining acupuncture is to drop the older, oversimplified view that there is a simple onc-to-one relationship bc-

néeded one.

tween stimulus and pain. Transmission of pain, he said, is a dynamic process, capable of being modulated.

In another comment, as official of the Food and Drug Administration, David Link, observed that there has never been any "medical technique that has been so highly publicized [as acupuncture] and about which so little is known." He ndded that there are great opportunities for the unserupulous to abuse the technique.

He noted that the FDA legally has no premarket control over acupuncture instruments or any other medical device. The agency, however, does have authority over "adulteration or inisbranding" of these devices, he said. Current FDA policy is to regard as misbranded any claim for diagnostic or therapeutic effectiveness made for any acapuncture device. They must be clearly labeled as experimental. Mr. Link said.

Panel moderator, Dr. Walter Judd, a medical missionary to pre-Revolutionary China, stressed the need for increased research and investigation of acupuncture'a

Moshe Ben Malmouldes

diminition of the state of the



Born in Cordova, Spain, Mosho Ben Maimonides (1135-1204) studied sciences at the University of Cordova until his family and other Jews were forced out of Cordova. Finishing his education in Cairo, he achieved fame as o physician as well as o rabbi and became physician to the Sultan Saladin. His most widely known medical work was his Book of Counsel (1198), a series of letters on diet and hygiene Maimonides' credo was: "Live sensibly -among a thousand people only one dies a natural death, the rest succumb to irrational modes of living." Israel issued the stamp in 1953.

Text: Dr. Joseph Kler



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the hydrochleride

se it's effective

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Good

ml.; four lo 11 months, 195 mg./100 ml.; interested in it." MEDICAL MEETING SCHEDULE Foreign Meetings

.. International Congress of the Internal League Against Epilepsy, Barcelona, Spain
.. International Congress of Chemotherapy, Athons
.. European Conference on Podlatele Nephrology, Strbake Pless, Czechoslorekia

Sept. 23-24 ... Society for Pediatric Redelecti Sept. 24-28 ... International Academy of Legi Medicine, Roma
Sept. 24-28 ... International Tuberculosis Coster energy Tokyo
Sept. 24-28 ... Sooth Airlean Society of Otorhio lary ngology, Cape Tokyo
Intry ngology, Cape Tokyo
Sept. 25-28 ... American Roenigen Ray Society
Manyresi
191. 27-29 ... Symposium on the Phylomorph clogy of Neuromurals Facts
ology of Neuromurals Facts
10th, Creaces, Poland
1. 27- International Congress of Rises and International Congress of Research (2.6 mastelogy, Kyolo, Japan

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